

FIG. 1a

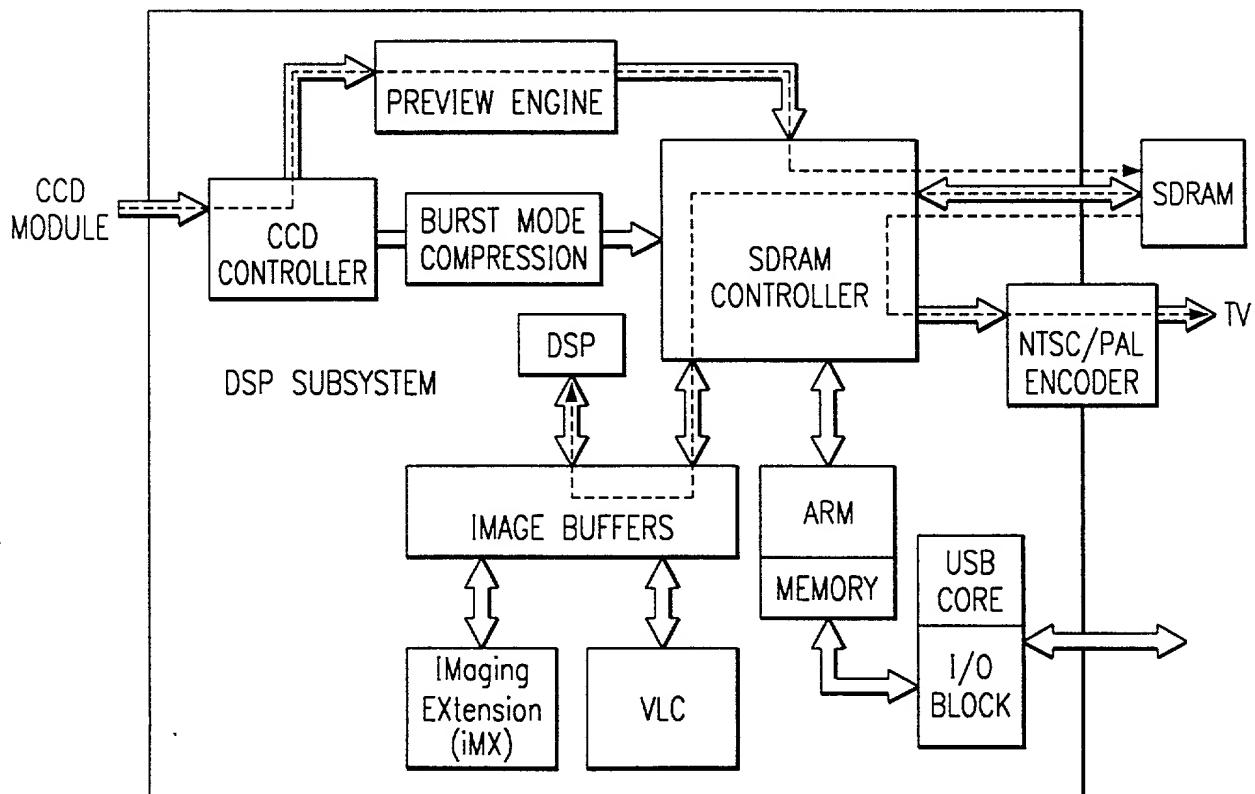


FIG. 2

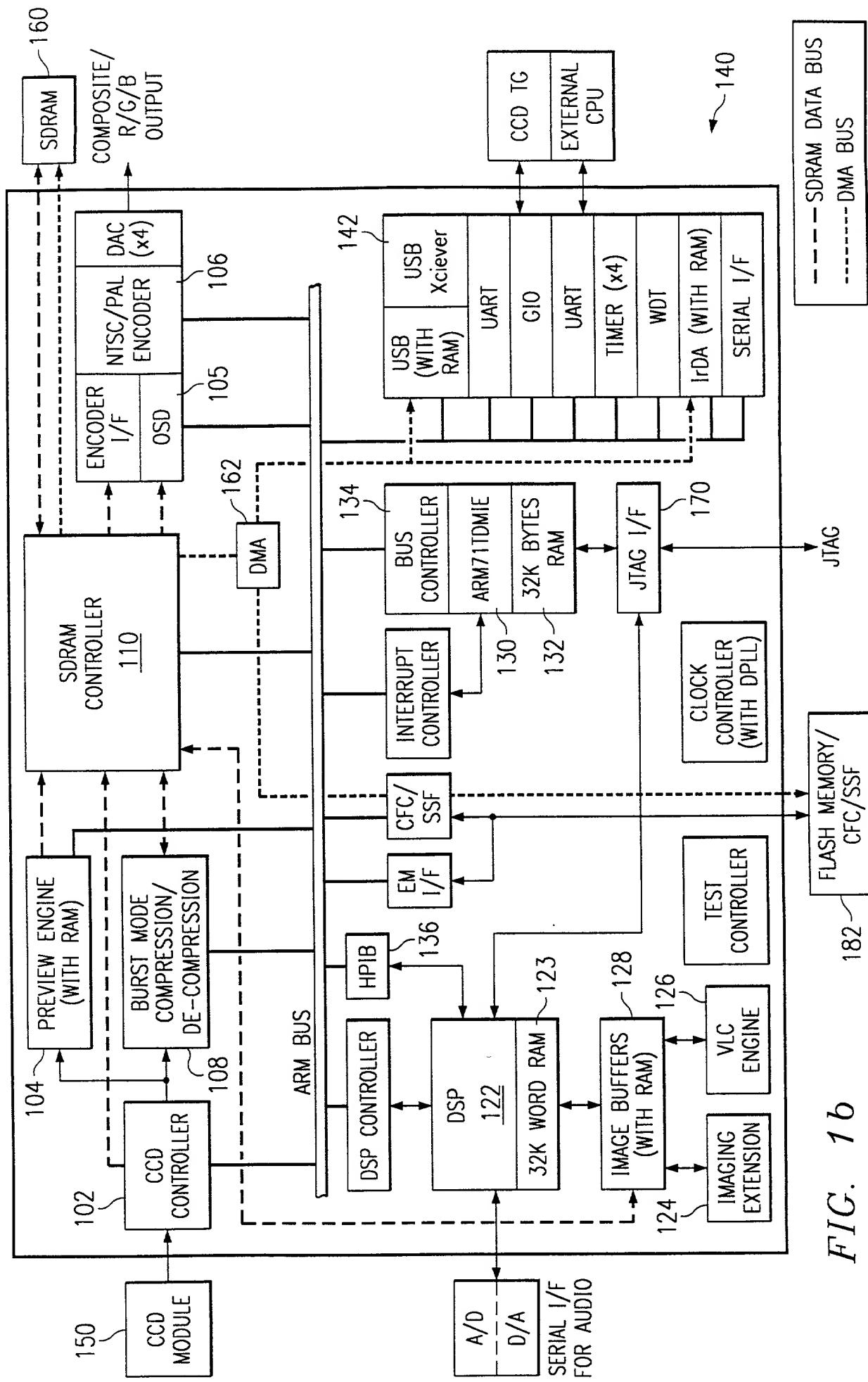
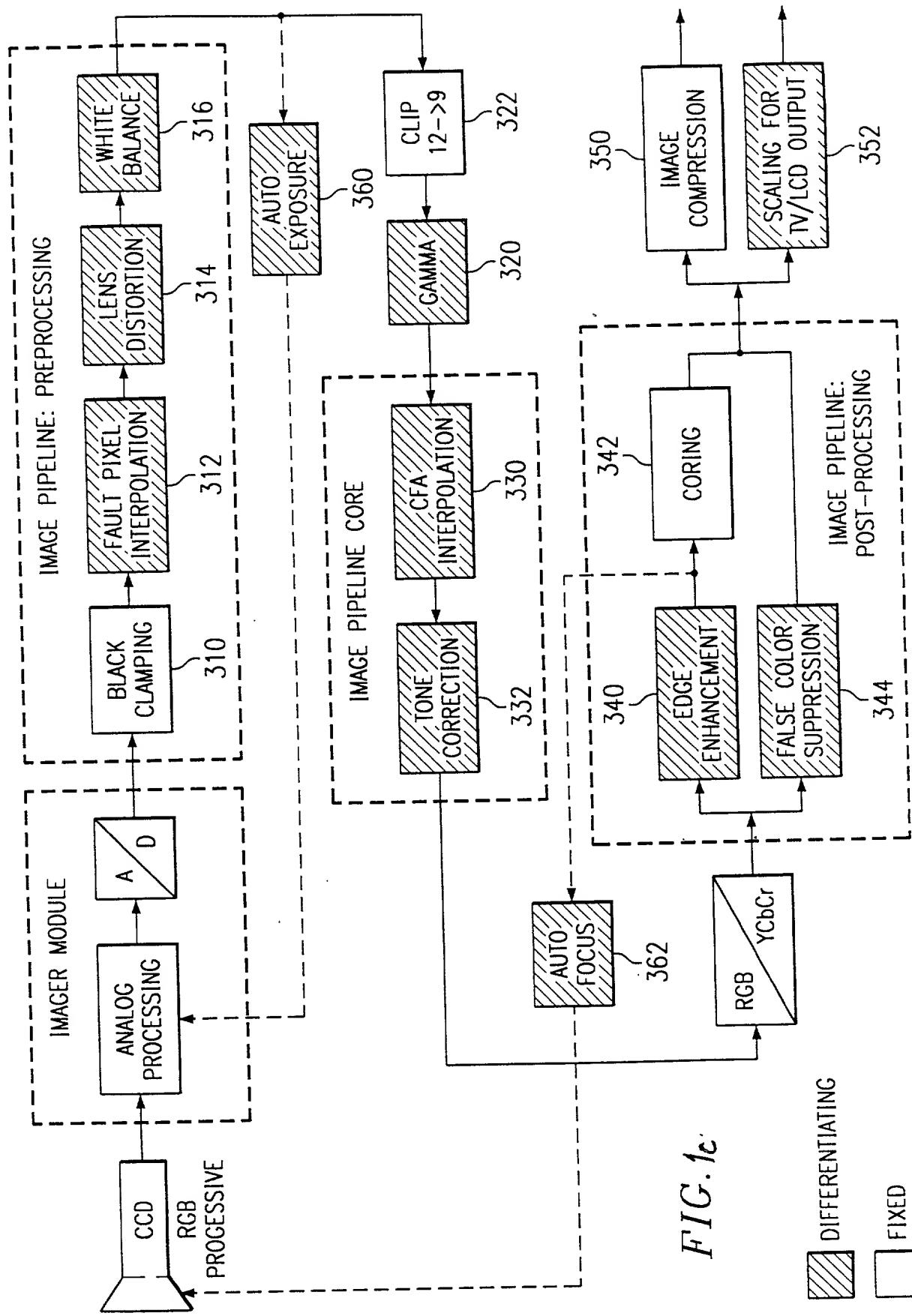


FIG. 1b



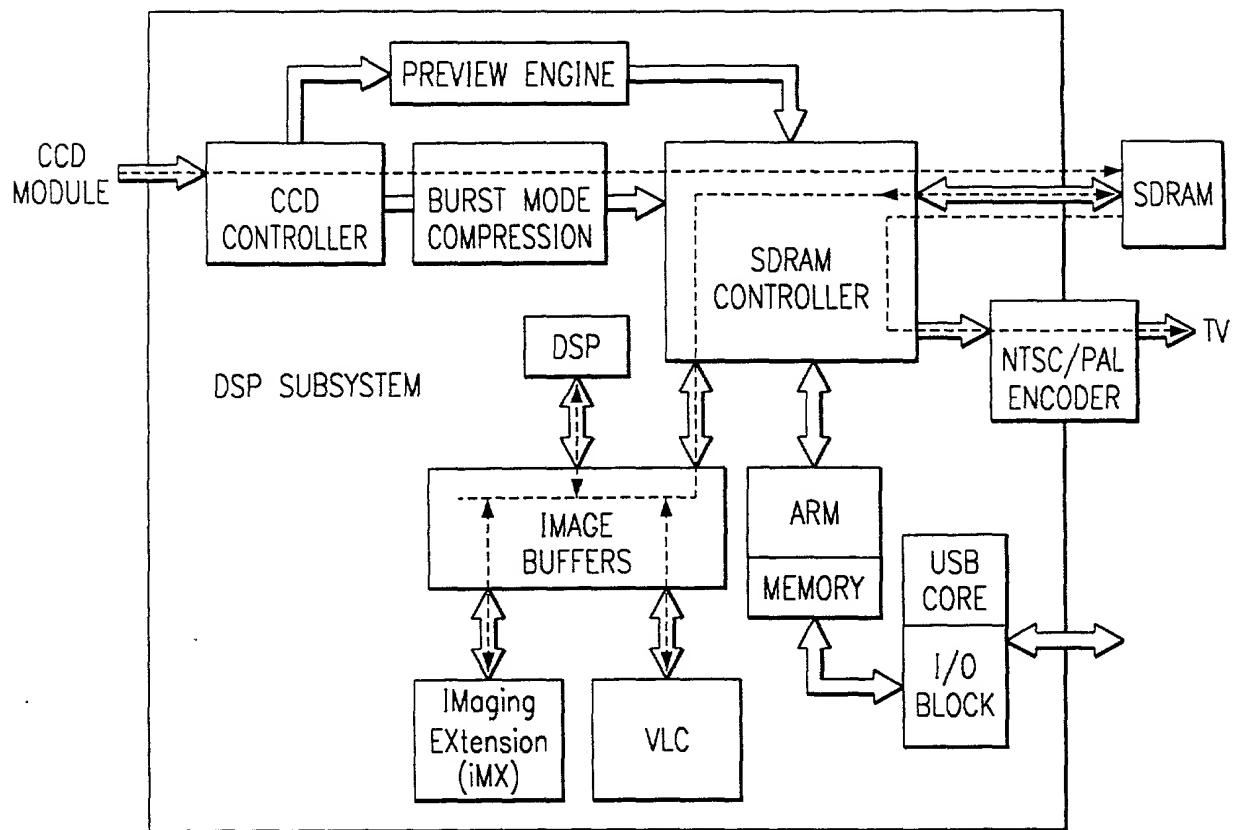


FIG. 3a

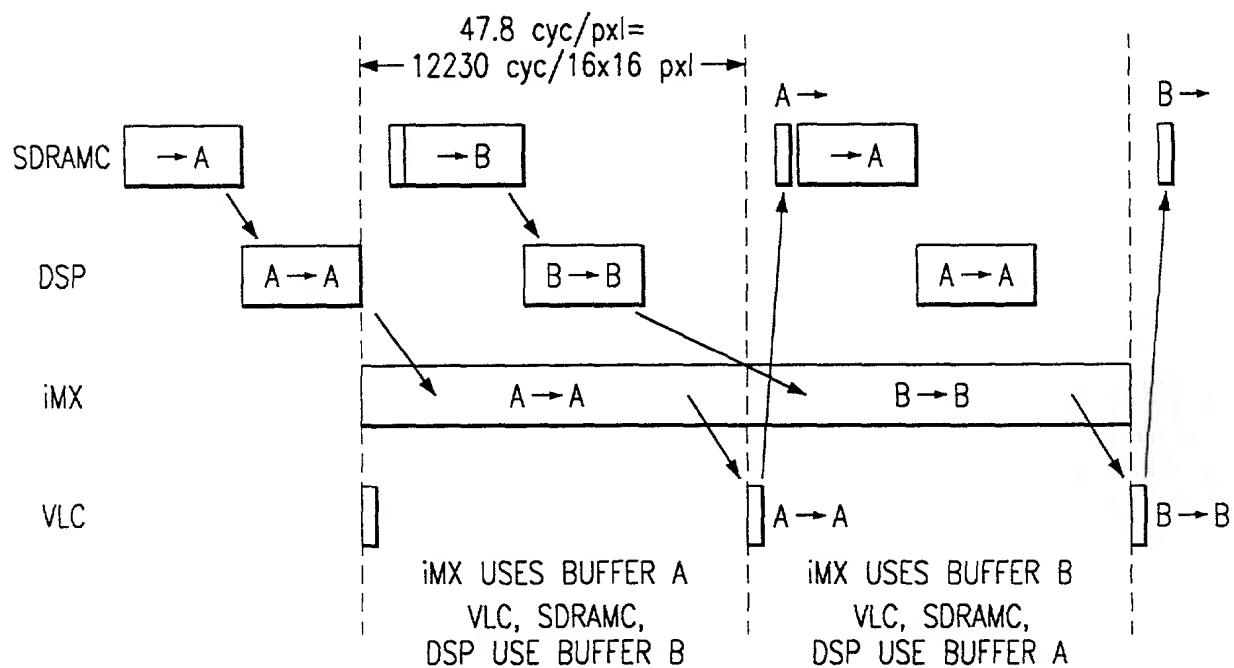


FIG. 36

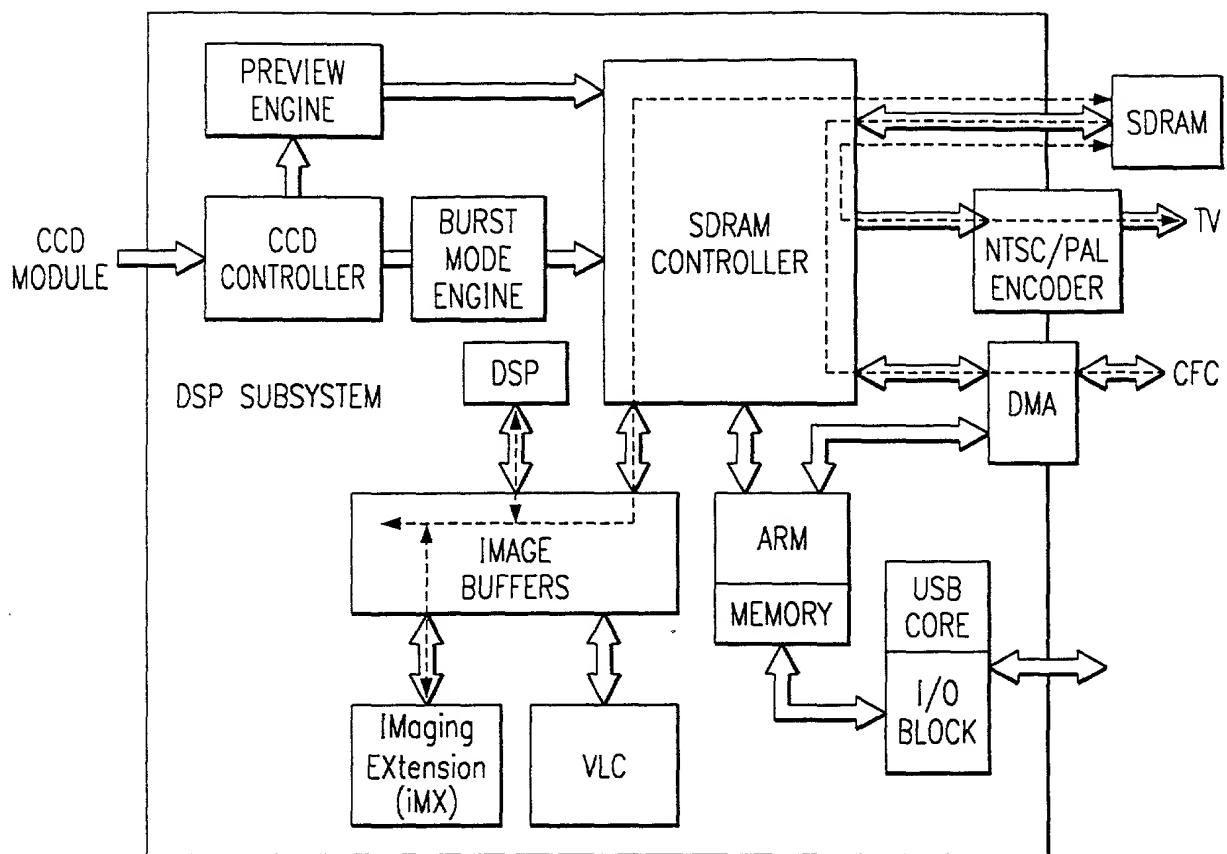


FIG. 4

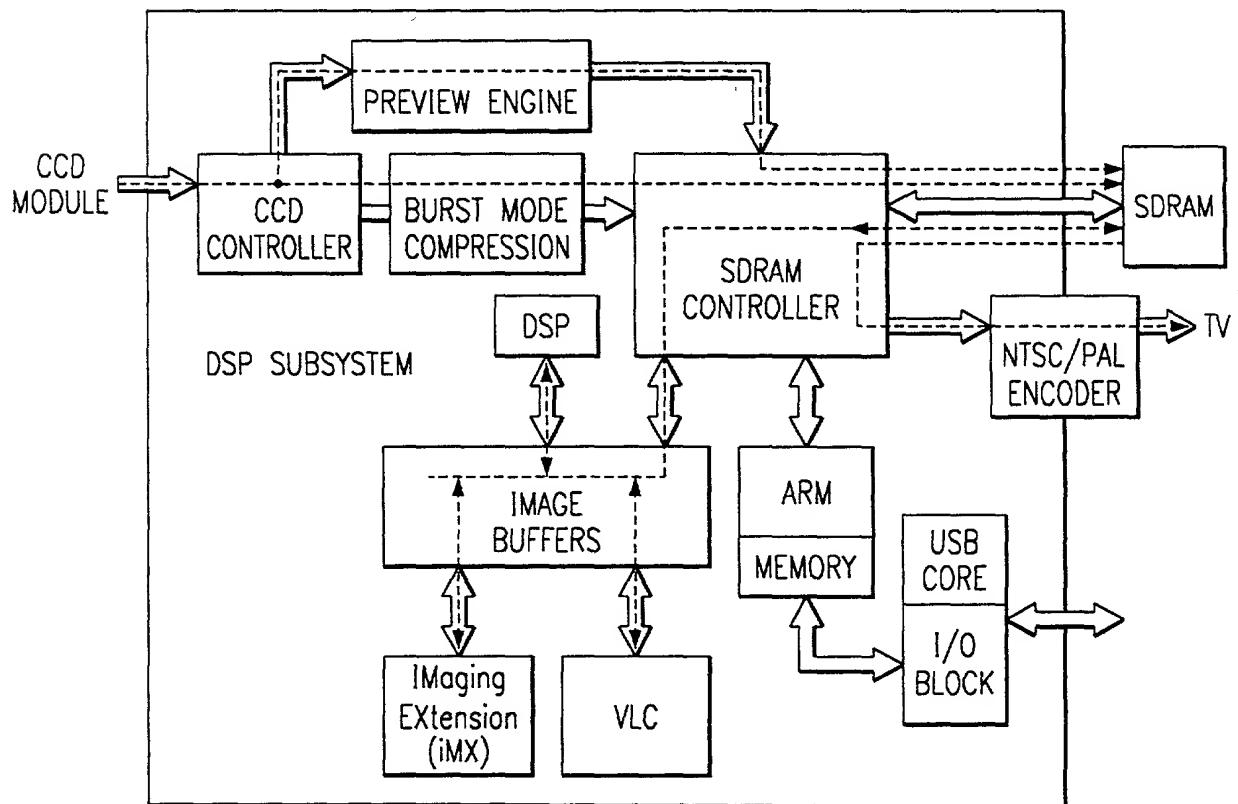


FIG. 5

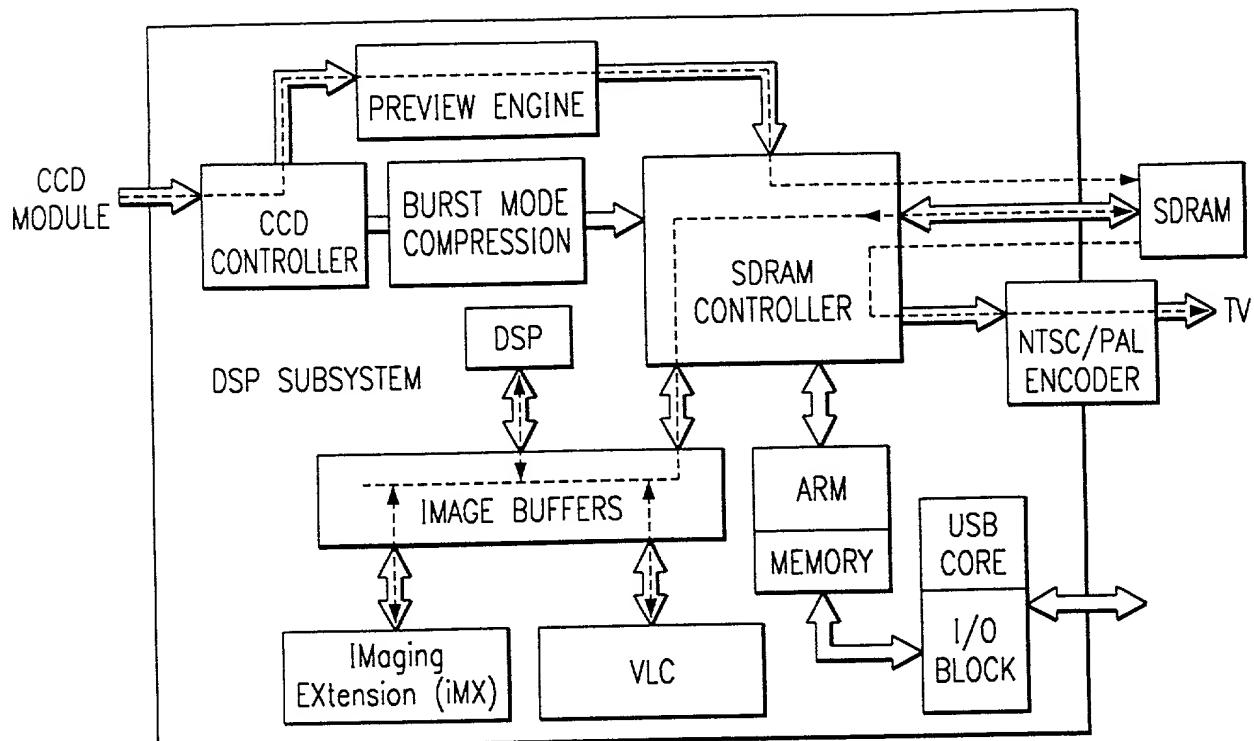


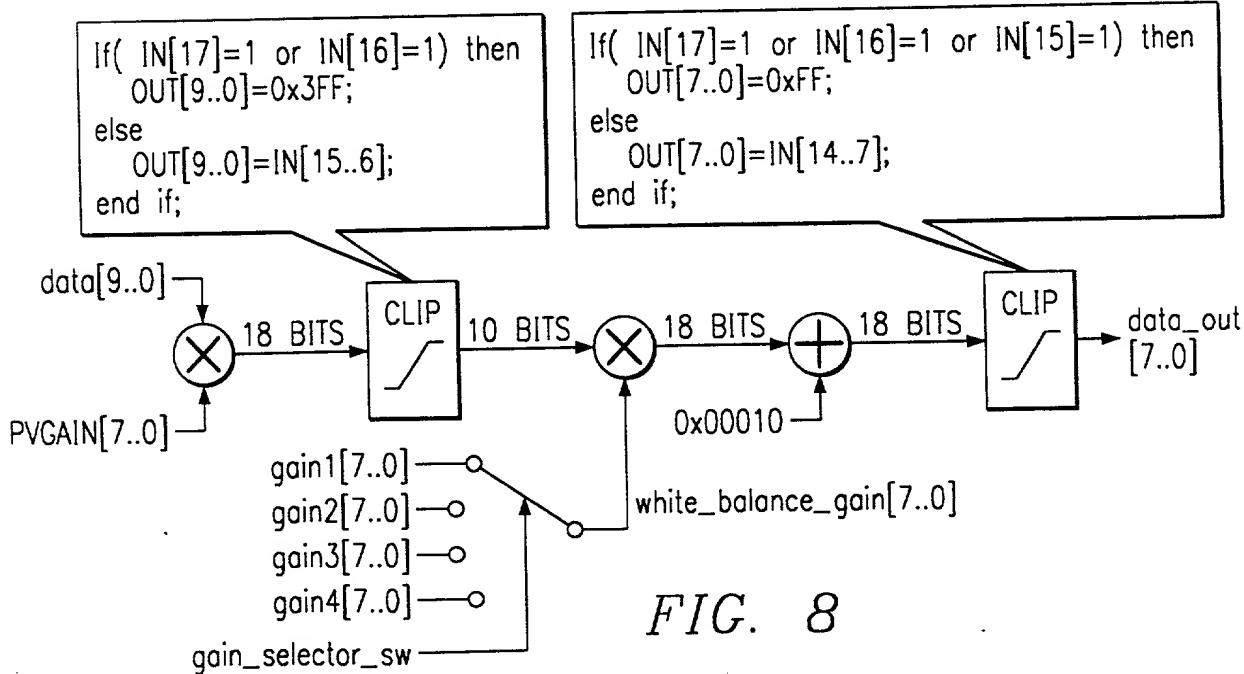
FIG. 6

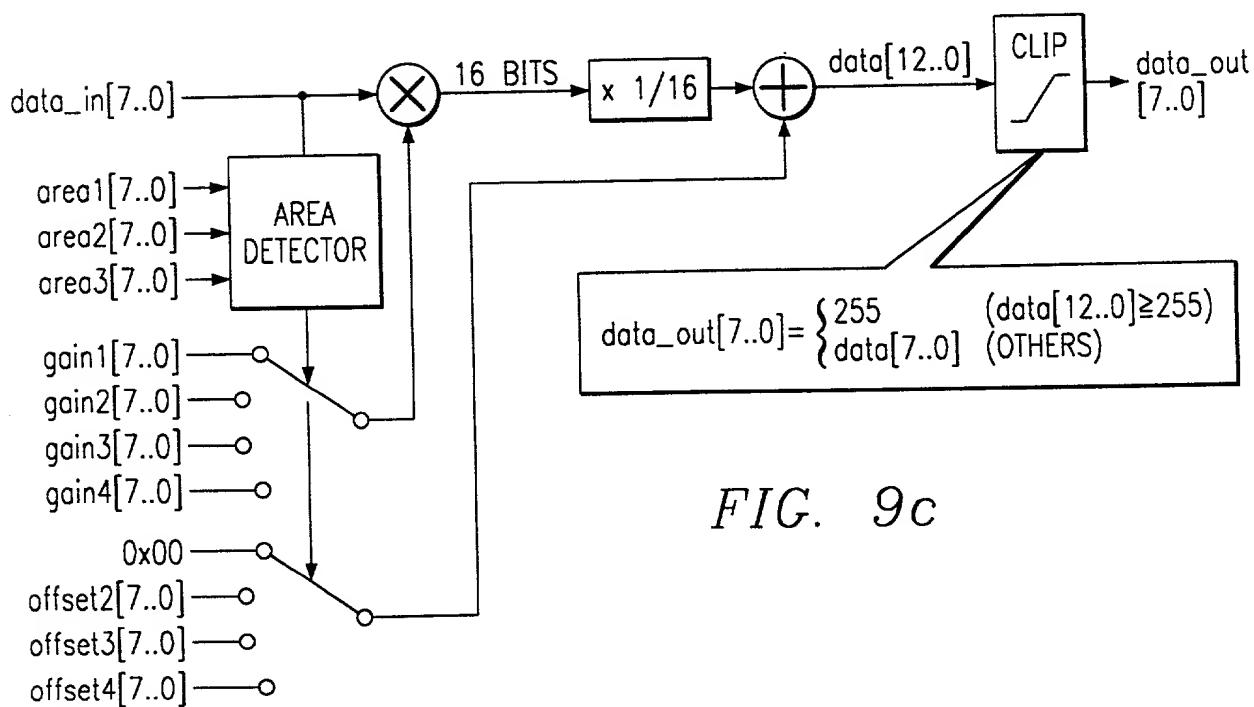
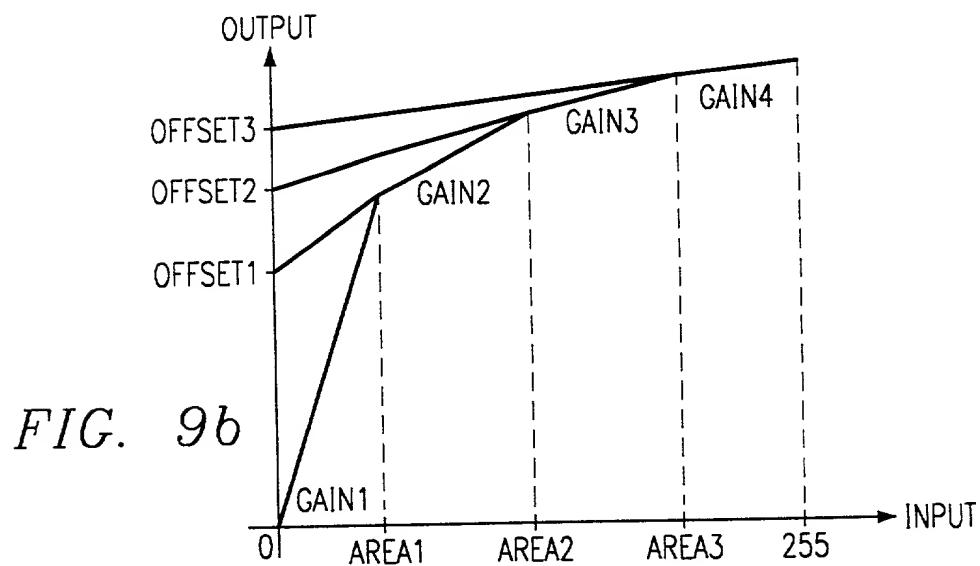
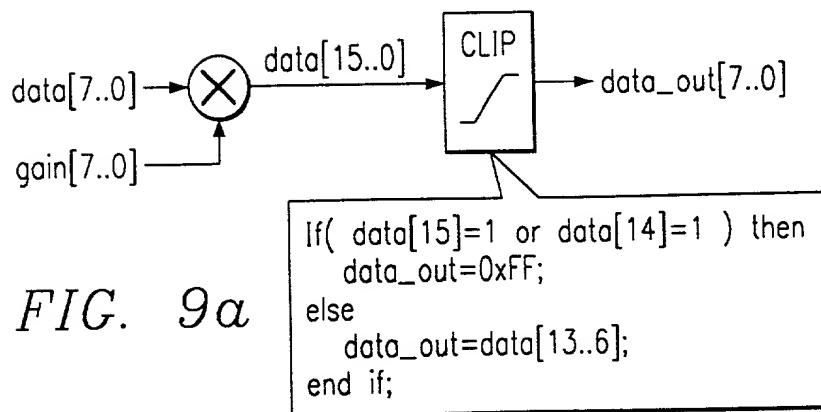
R	G	R	G
G	B	G	B
R	G	R	G
G	B	G	B

FIG. 7a

Ye	Cy	Ye	Cy
G	Mg	G	Mg
Ye	Cy	Ye	Cy
G	Mg	G	Mg

FIG. 7b





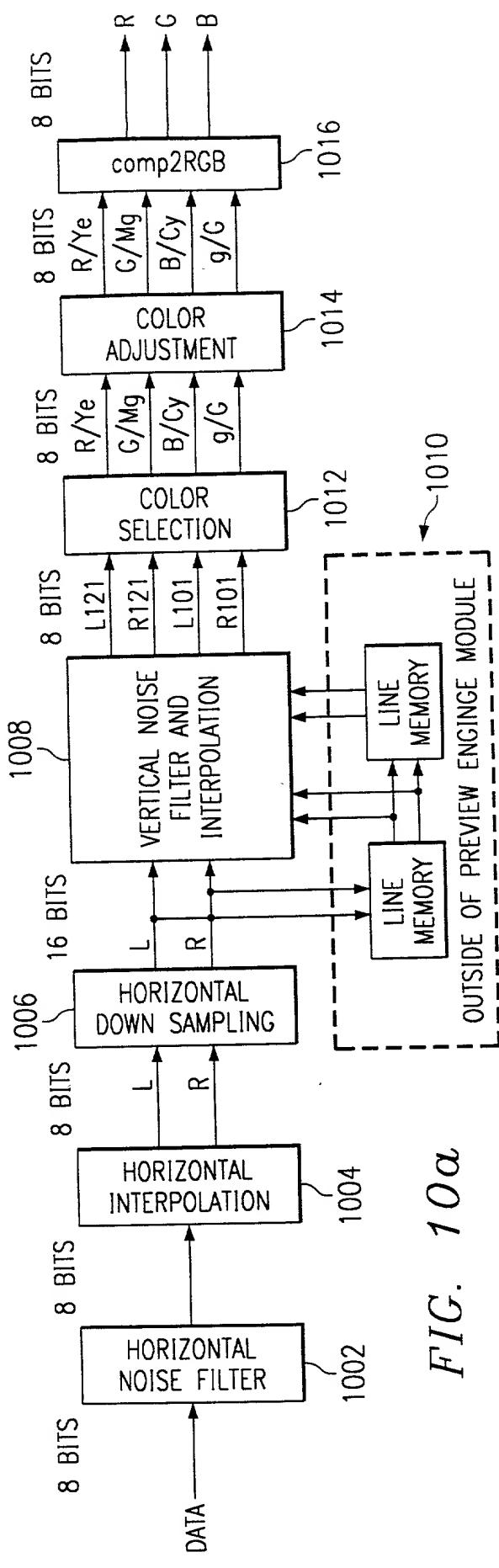


FIG. 10a

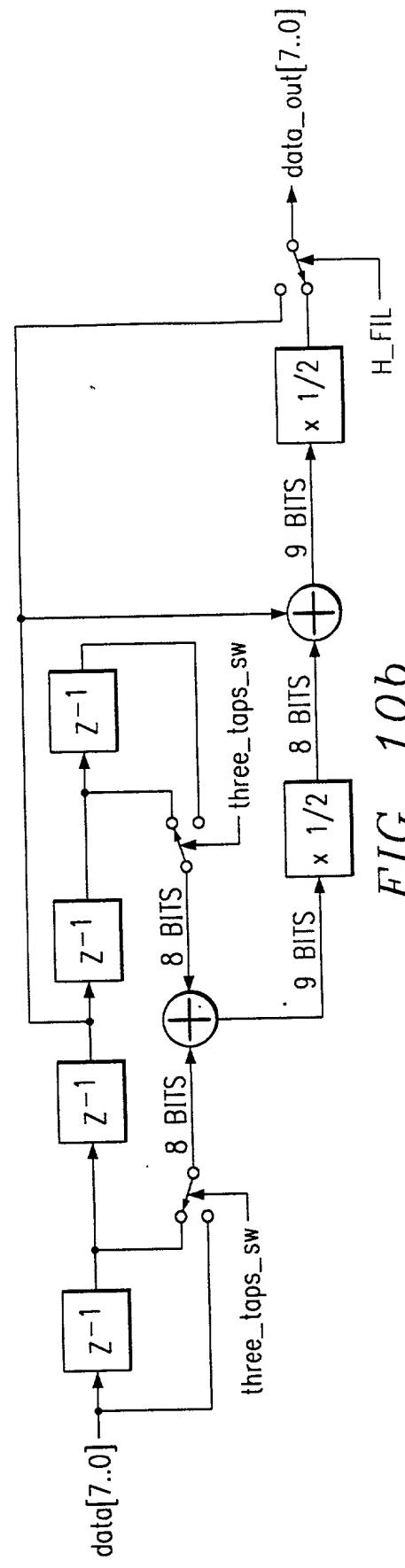
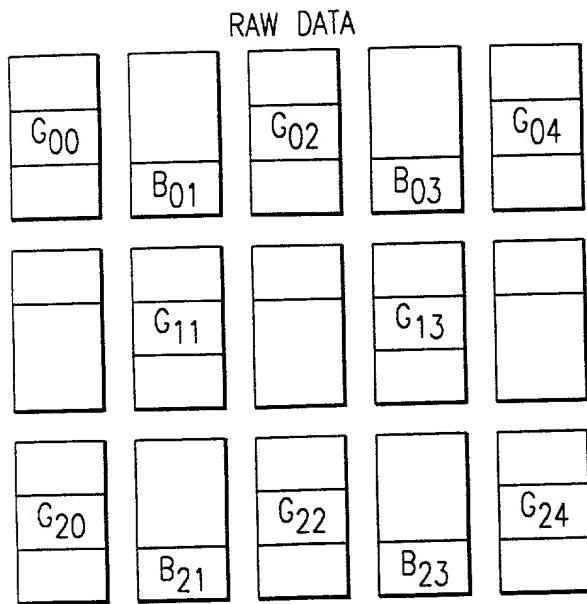
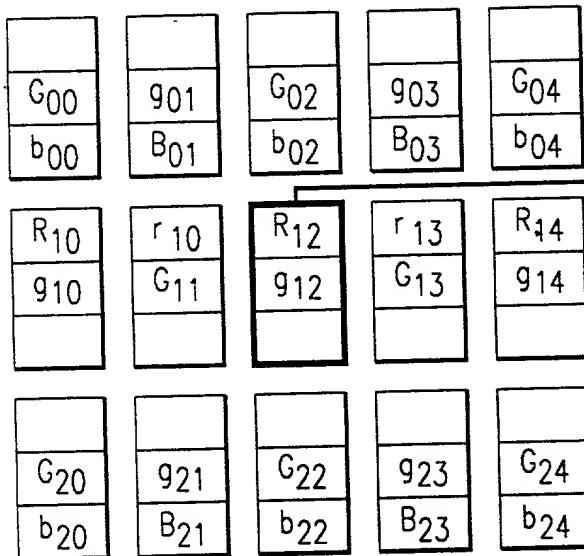


FIG. 10b



HORIZONTAL
INTERPOLATION ↓

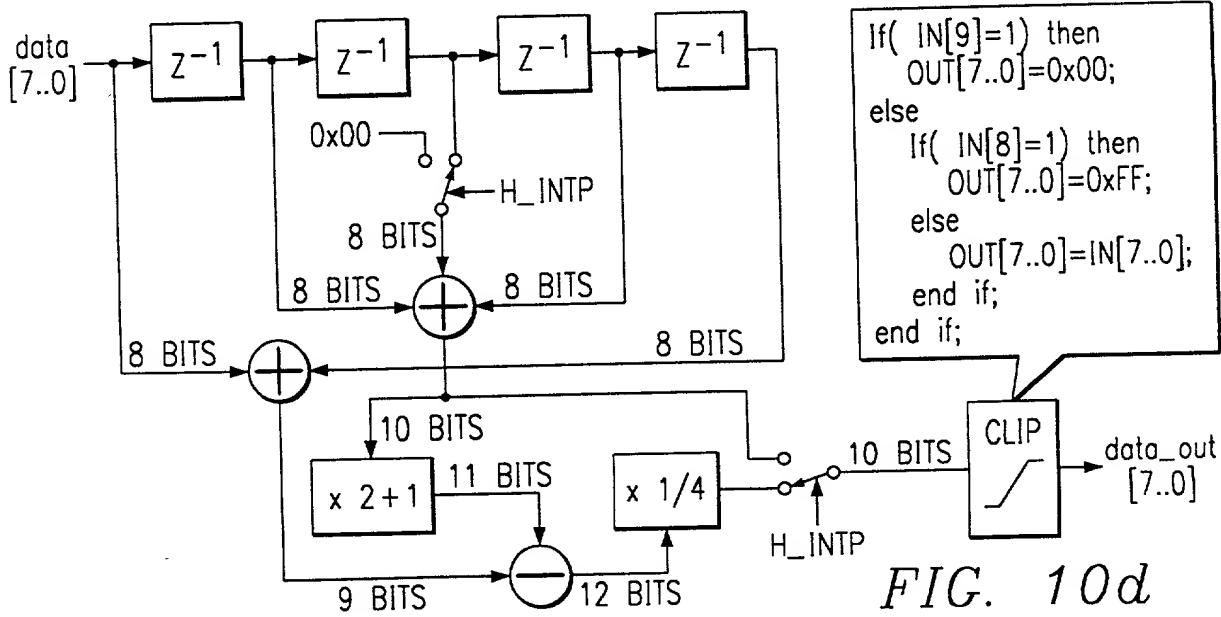


NORMAL MODE

$$g_{12} = \frac{-R_{10} + 2G_{11} + 2R_{12} + 2G_{13} - R_{14}}{4}$$

SIMPLE MODE

$$g_{12} = \frac{G_{11} + G_{13}}{2}$$



OUTPUT OF HORIZONTAL INTERPOLATION

901	G02	903
B01	b02	B03

r11	R12	r13
G11	912	G13

921	922	923
B21	B22	B23

VERTICAL
INTERPOLATION

r01	r02	r03
901	G02	903
B01	b02	B03

$$b_{12} = \frac{b_{02} + b_{22}}{2}$$

r11	R12	r13
G11	912	G13
b11	b12	b13

SIMPLE MODE

r21	r22	r23
921	922	923
B21	B22	B23

COLOR ADJUSTMENT
(NORMAL MODE)

r̄01	r̄02	r̄03
901	G02	903
B01	b02	B03

r̄01	R̄02	r̄03
901	G02	903
B01	b02	B03

$$\bar{b}_{12} = \frac{b_{02} - G_{02} + b_{22} - G_{22}}{2} - g_{12}$$

r11	R12	r13
G11	912	G13
b11	b12	b13

r11	R12	r13
G11	912	G13
B11	b12	B13

r̄21	r̄22	r̄23
921	922	923
B21	B22	B23

r̄21	R̄22	r̄23
921	922	923
B21	B22	B23

FIG. 10e

OUTPUT OF HORIZONTAL INTERPOLATION

Ye ₀₀	cy ₀₀	ye ₀₁	Cy ₀₁	Ye ₀₂	cy ₀₂
G ₁₀	mg ₀₀	g ₁₁	Mg ₁₁	G ₁₂	mg ₁₂
Ye ₂₀	cy ₂₀	ye ₂₁	Cy ₂₁	Ye ₂₂	cy ₂₂

VERTICAL
INTERPOLATION ↓

Ye ₀₀	cy ₀₀	ye ₀₁	Cy ₀₁	Ye ₀₂	cy ₀₂
g ₀₀	mg ₀₀	g ₀₁	mg ₀₁	g ₀₂	mg ₀₂
ye ₁₀	cy ₁₀	ye ₁₁	Cy ₁₁	ye ₁₂	cy ₁₂
G ₁₀	mg ₁₀	g ₁₁	Mg ₁₁	G ₁₂	mg ₁₂
Ye ₂₀	cy ₂₀	ye ₂₁	Cy ₂₁	Ye ₂₂	cy ₂₂
g ₂₀	mg ₂₀	g ₂₁	mg ₂₁	g ₂₂	mg ₂₂

COLOR ADJUSTMENT
(NORMAL MODE) ↓

ye ₀₀	cy ₀₀	ye ₀₁	cy ₀₁	ye ₀₂	cy ₀₂	ye ₀₀	cy ₀₀	ye ₀₁	Cy ₀₁	Ye ₀₂	cy ₀₂
g ₀₀	mg ₀₀	g ₀₁	mg ₀₁	g ₀₂	mg ₀₂	g ₀₀	mg ₀₀	g ₀₁	mg ₀₁	g ₀₂	mg ₀₂
ye ₁₀	cy ₁₀	ye ₁₁	Cy ₁₁	ye ₁₂	cy ₁₂	ye ₁₀	cy ₁₀	ye ₁₁	Cy ₁₁	ye ₁₂	cy ₁₂
g ₁₀	mg ₁₀	g ₁₁	Mg ₁₁	g ₁₂	mg ₁₂	G ₁₀	mg ₁₀	g ₁₁	Mg ₁₁	G ₁₂	mg ₁₂
ye ₂₀	cy ₂₀	ye ₂₁	Cy ₂₁	ye ₂₂	cy ₂₂	Ye ₂₀	cy ₂₀	ye ₂₁	Cy ₂₁	Ye ₂₂	cy ₂₂
g ₂₀	mg ₂₀	g ₂₁	mg ₂₁	g ₂₂	mg ₂₂	g ₂₀	mg ₂₀	g ₂₁	mg ₂₁	g ₂₂	mg ₂₂

$$ye_{11} = \frac{ye_{01} + ye_{21}}{2}$$

$$cy_{11} = \frac{Cy_{01} + Cy_{21}}{2}$$

SIMPLE MODE

$$a = g_{11} + Mg_{11} - ye_{11} - cy_{11}$$

$$\overline{ye_{11}} = ye_{11} + \frac{a}{4}$$

$$\overline{cy_{11}} = cy_{11} + \frac{a}{4}$$

$$\overline{g_{11}} = g_{11} - \frac{a}{4}$$

$$\overline{mg_{11}} = Mg_{11} - \frac{a}{4}$$

FIG. 10f

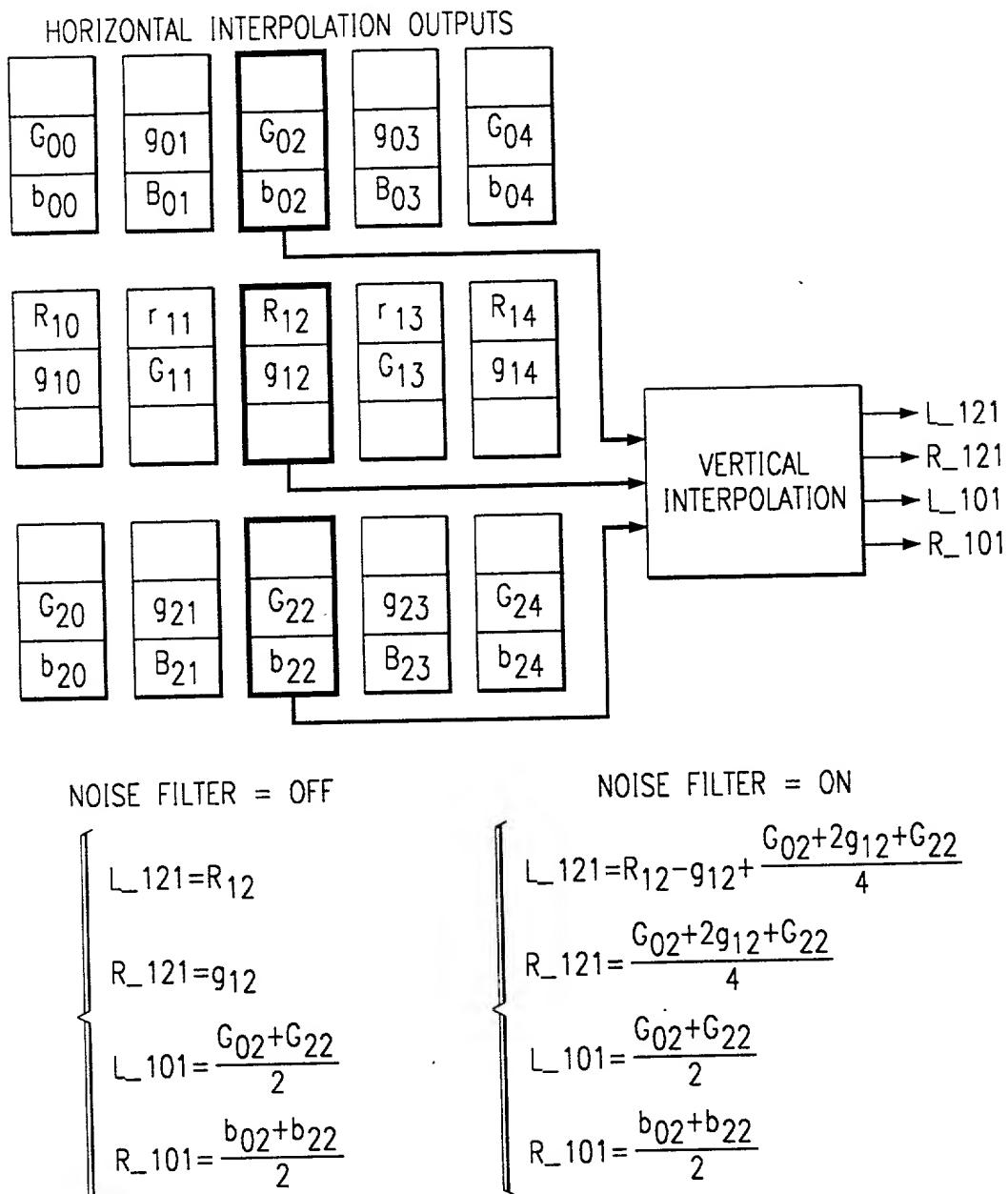


FIG. 10g

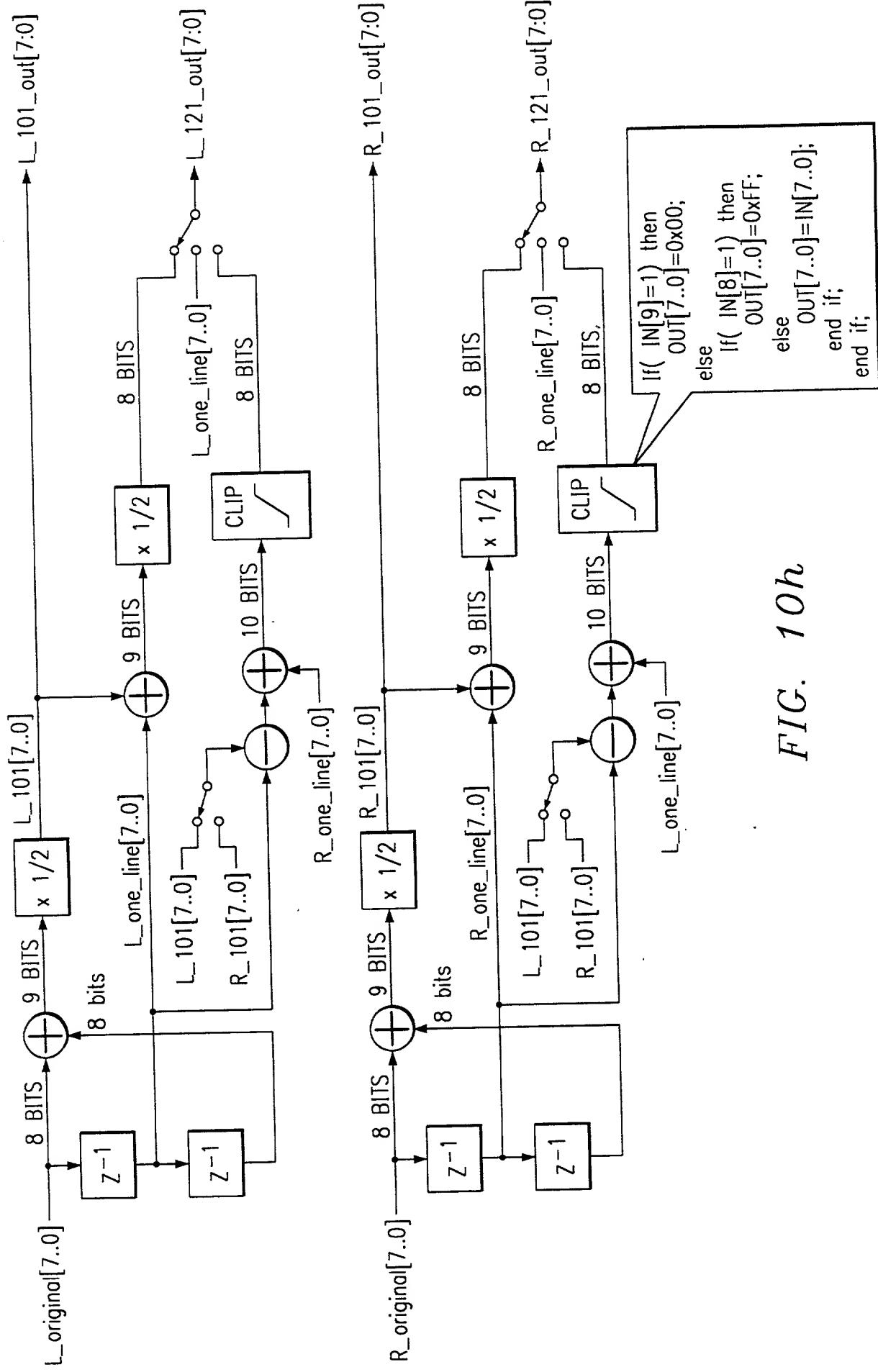


FIG. 10h

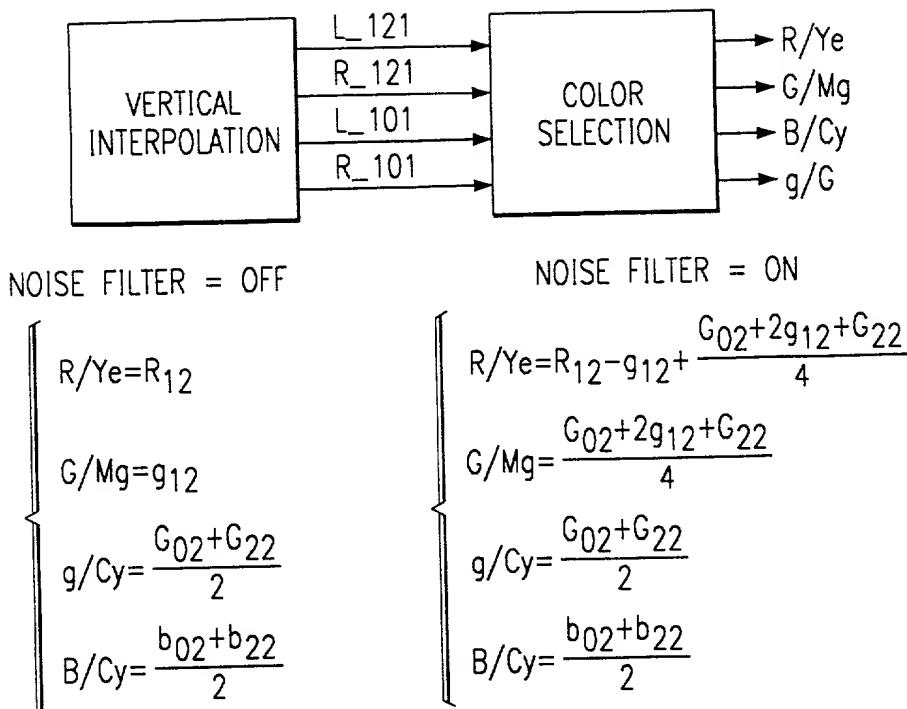


FIG. 10i

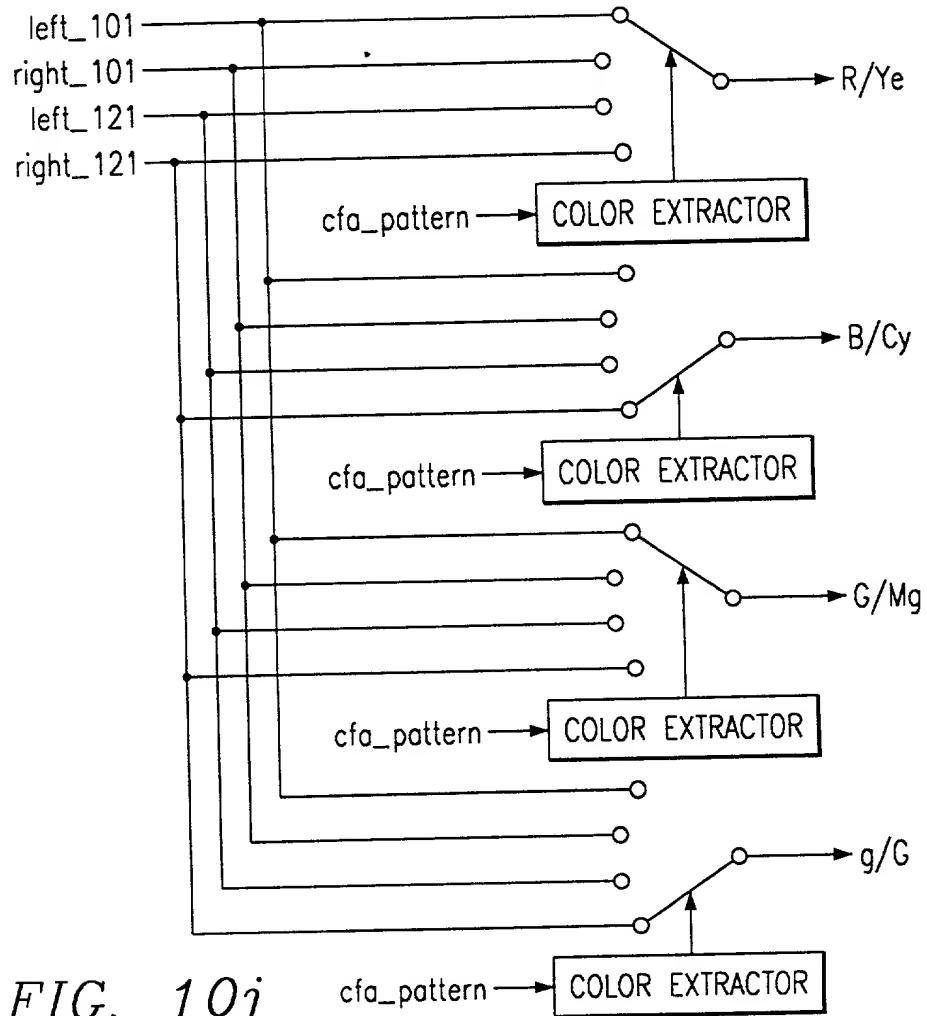
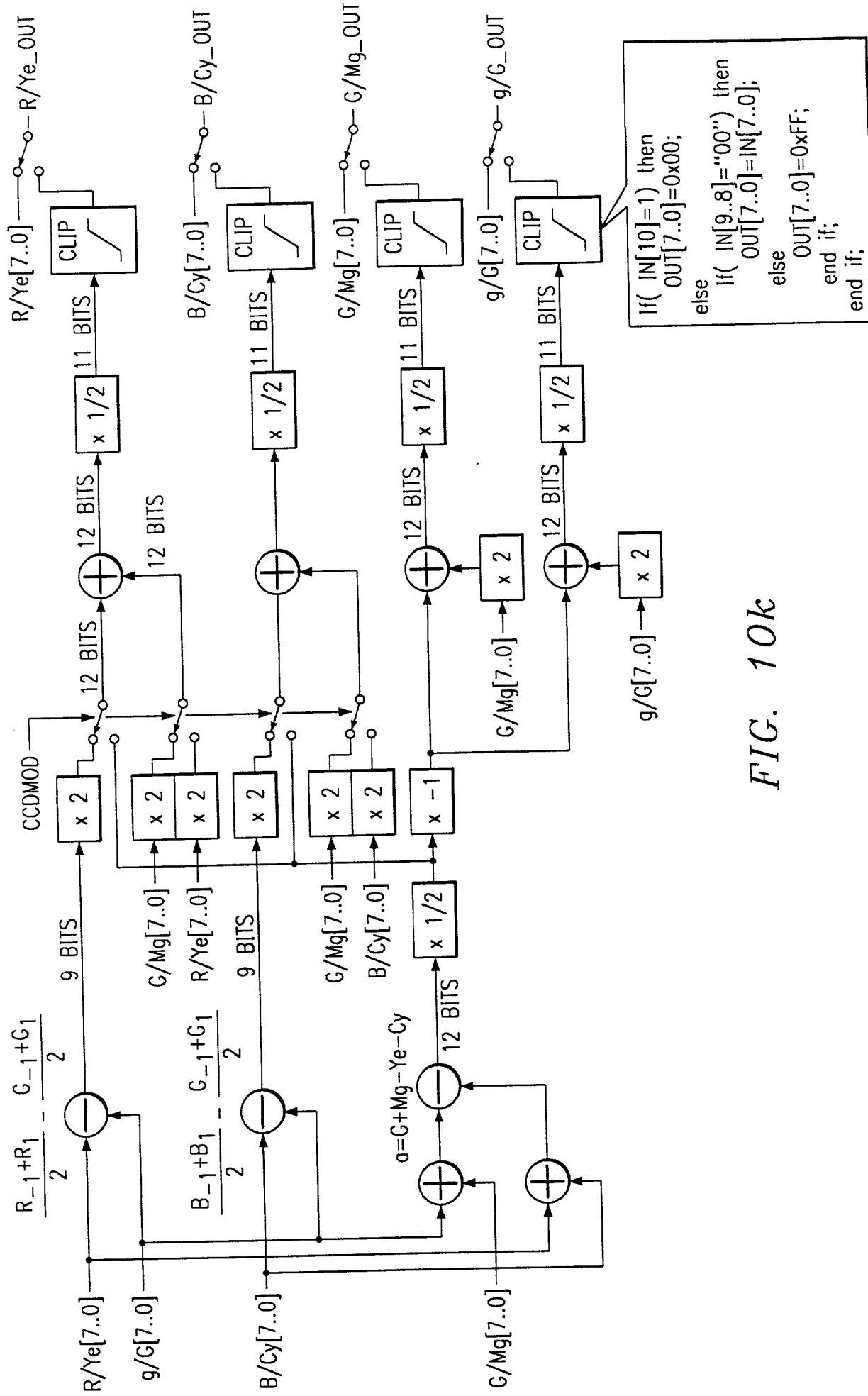


FIG. 10j



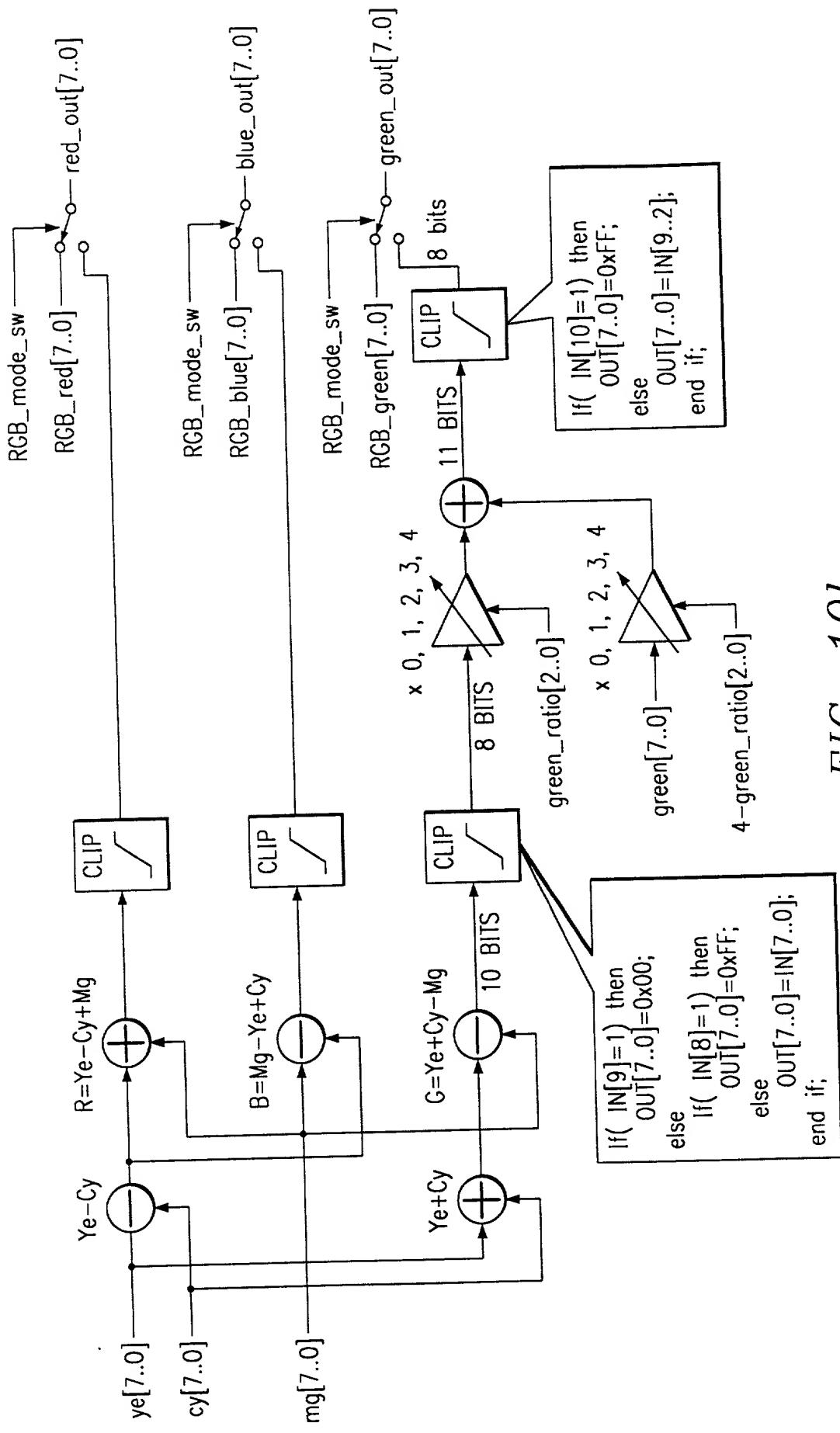


FIG. 101

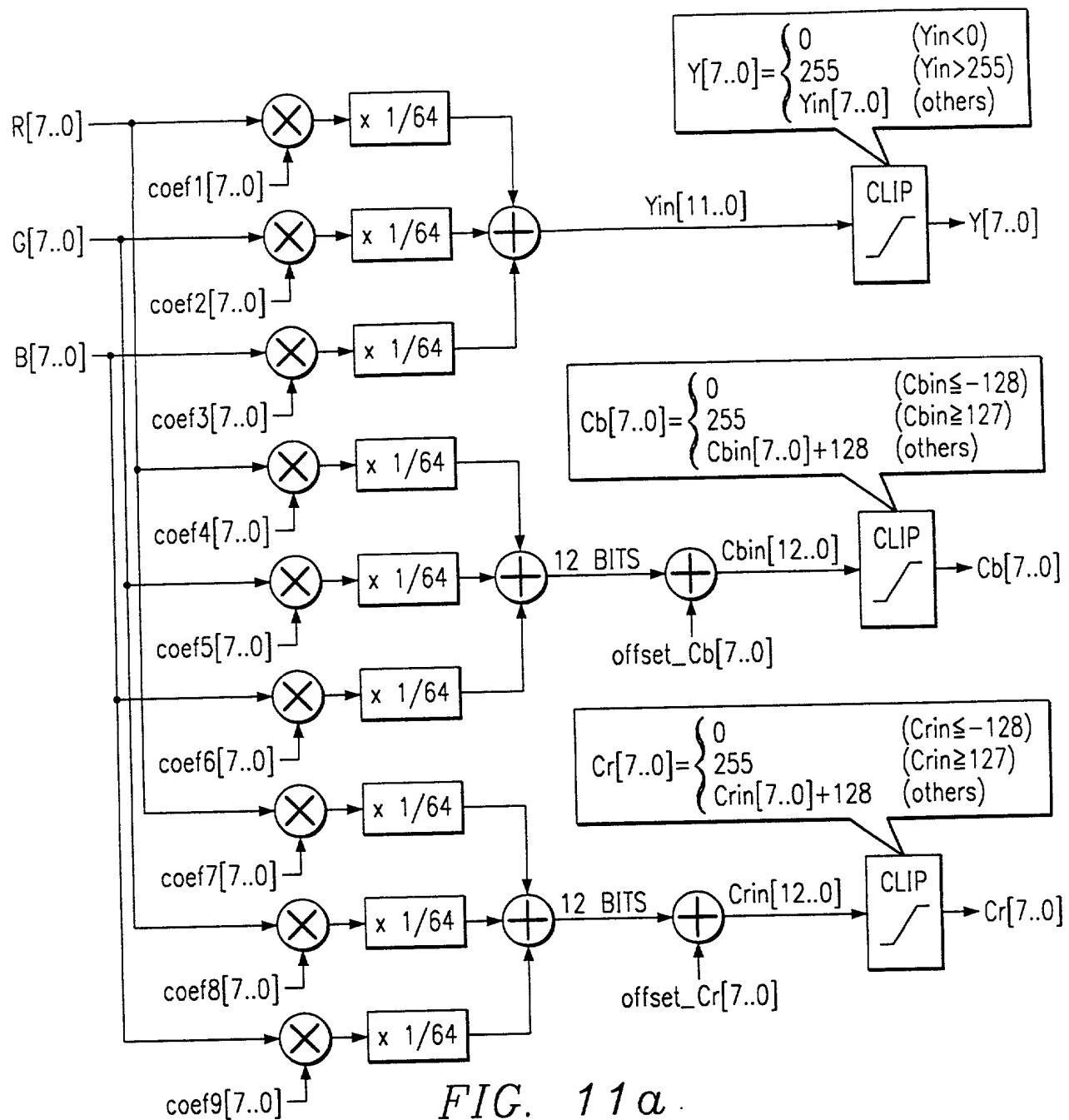


FIG. 11a

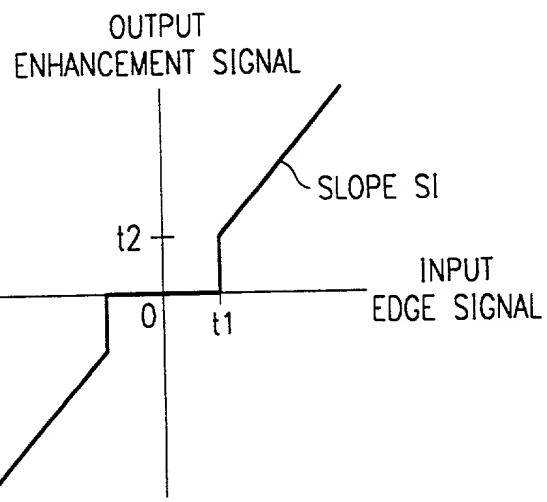


FIG. 11b

FIG. 12a

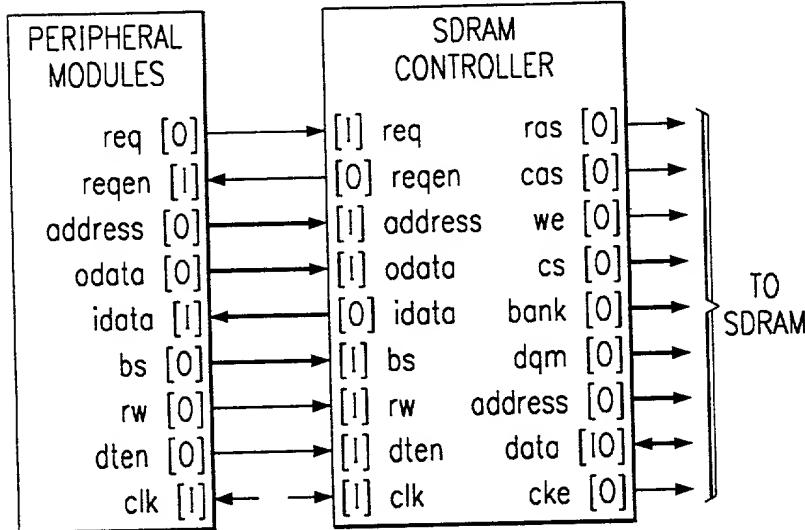
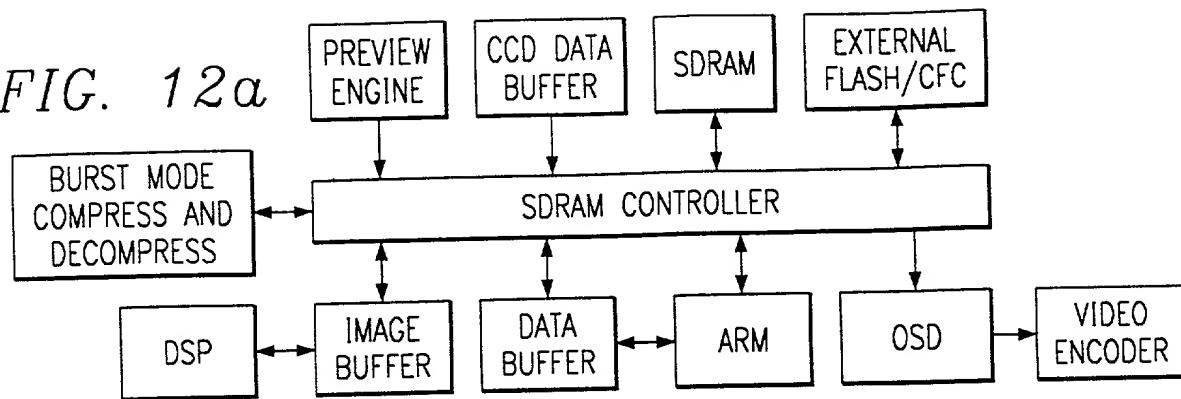


FIG. 12b

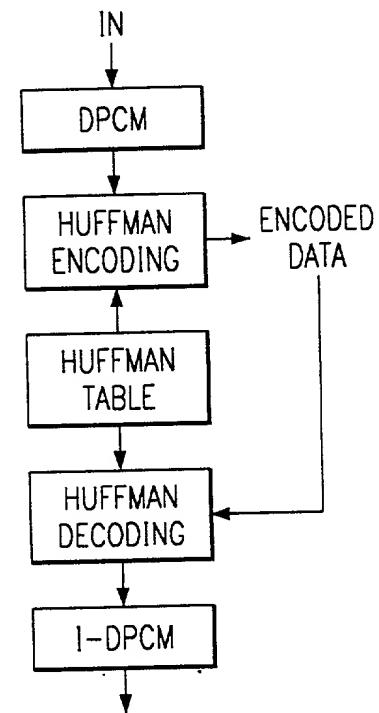


FIG. 13b

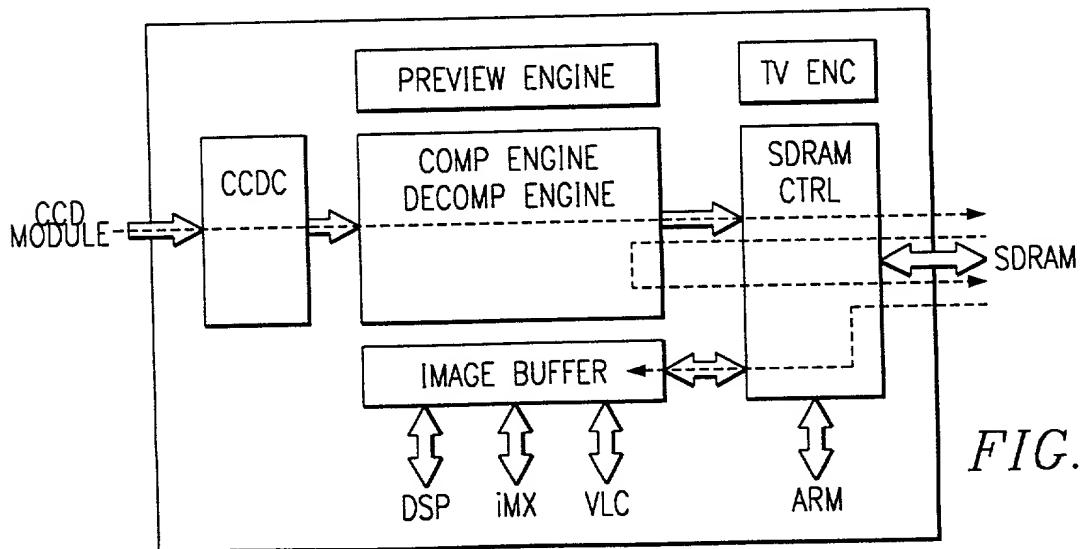


FIG. 13a

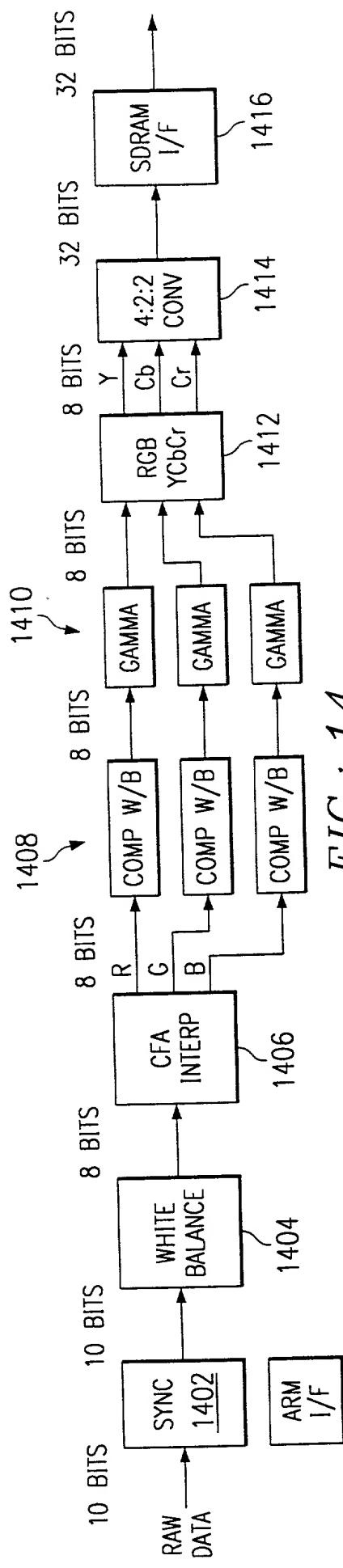


FIG. 14

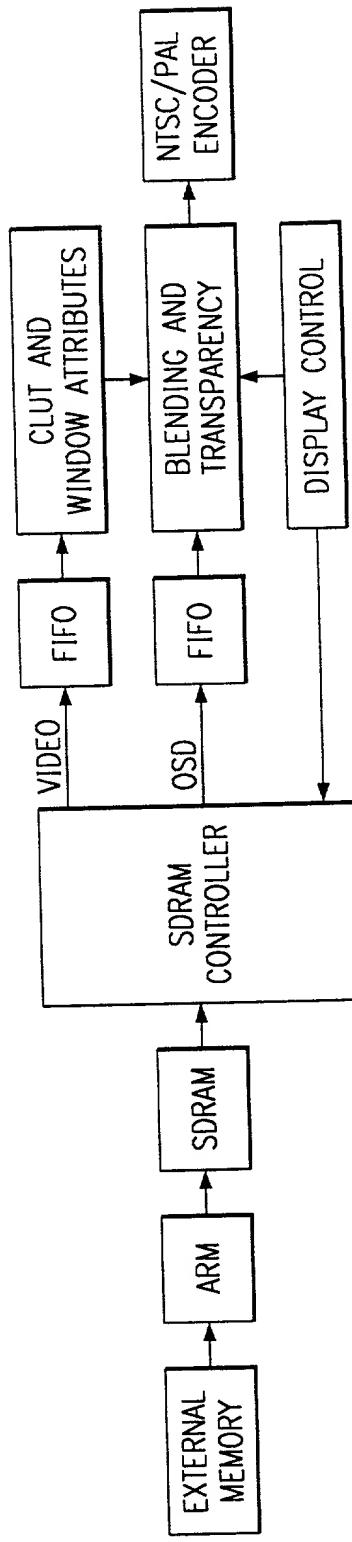


FIG. 15

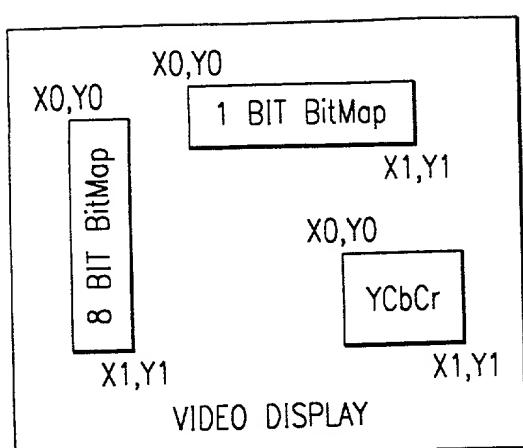


FIG. 16

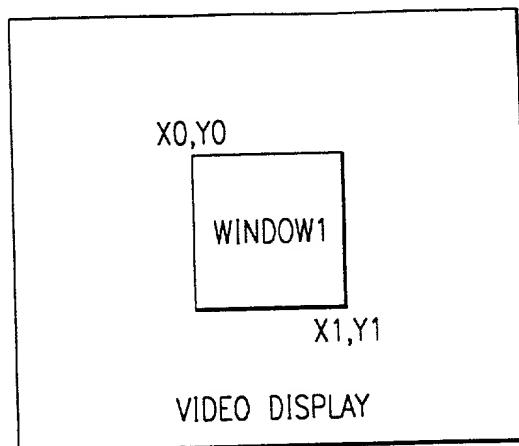


FIG. 17

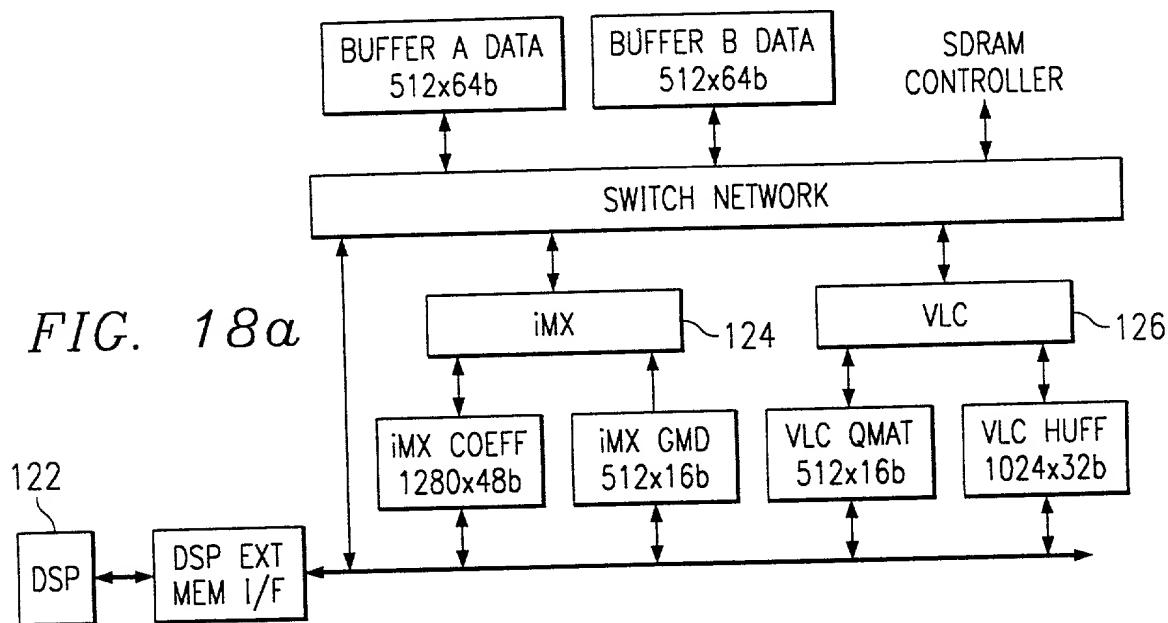


FIG. 18a

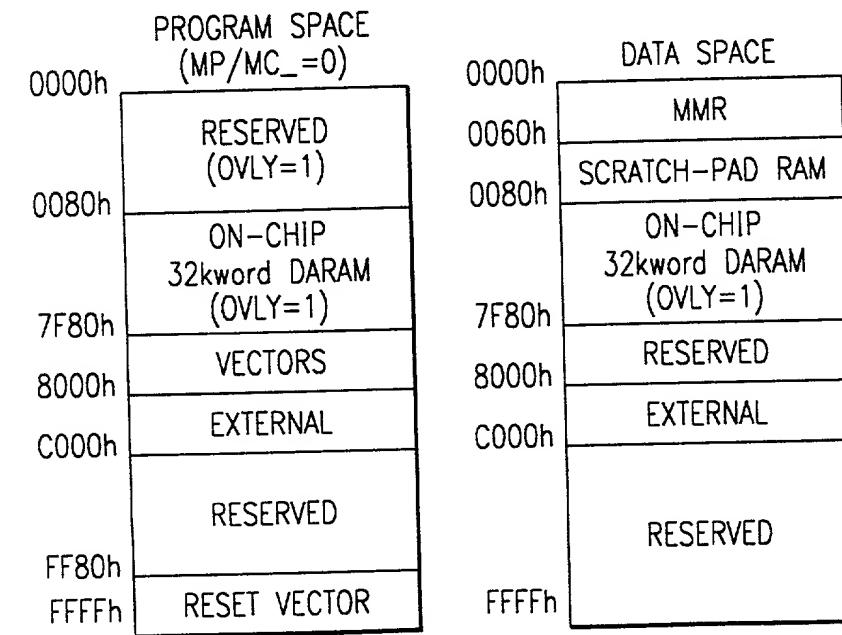


FIG. 18b

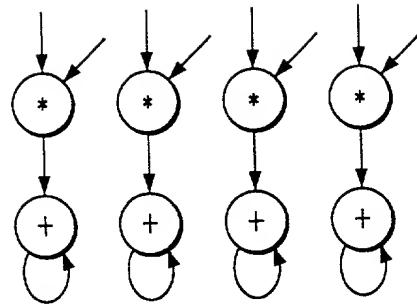


FIG. 19

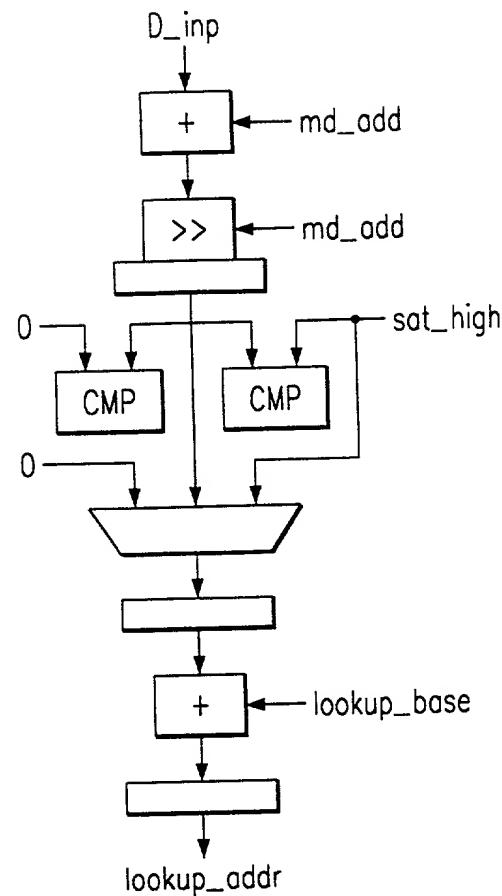


FIG. 21

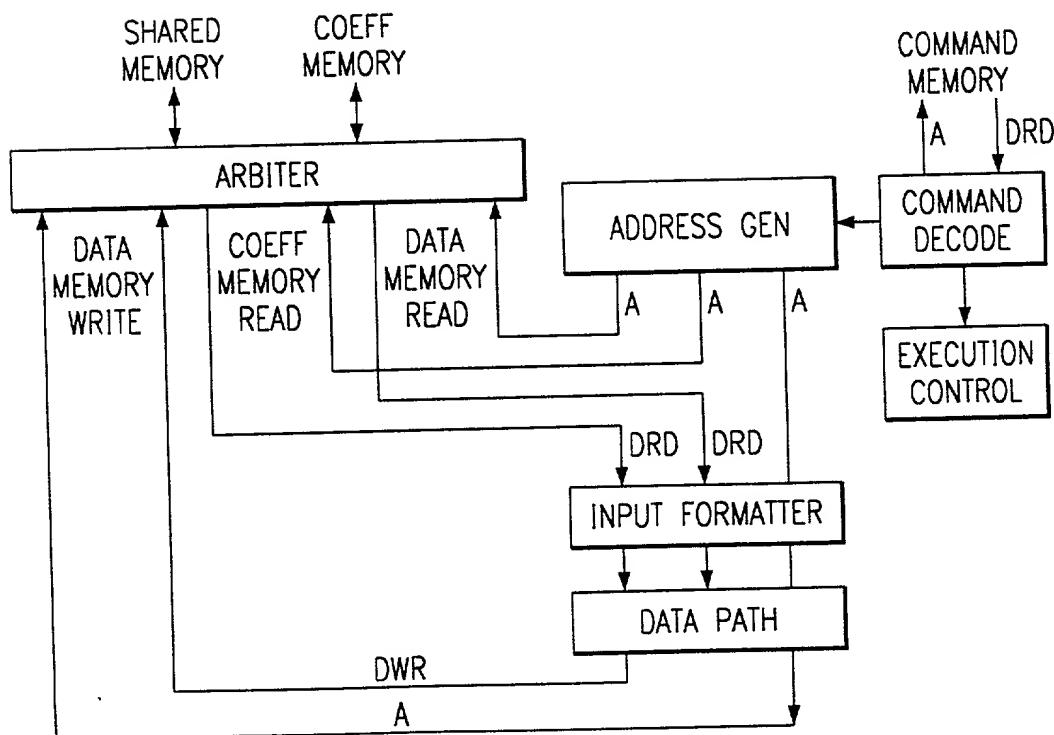


FIG. 20

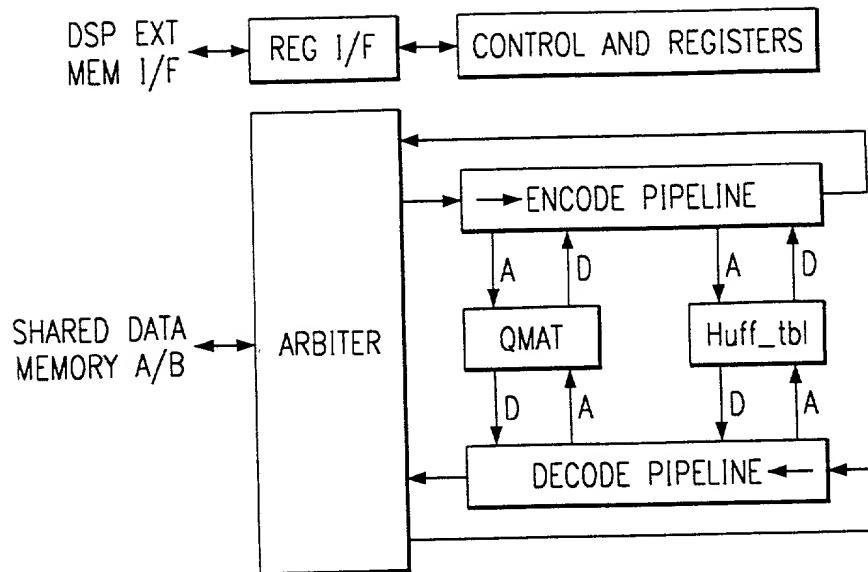


FIG. 22

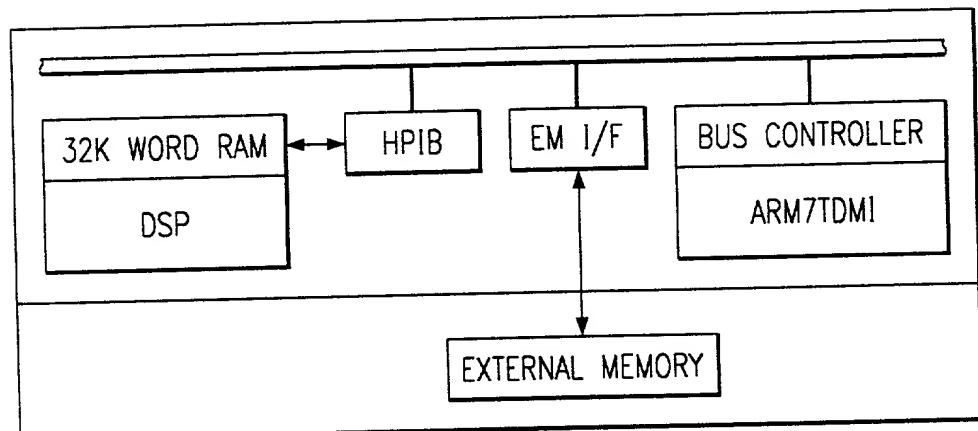


FIG. 23a

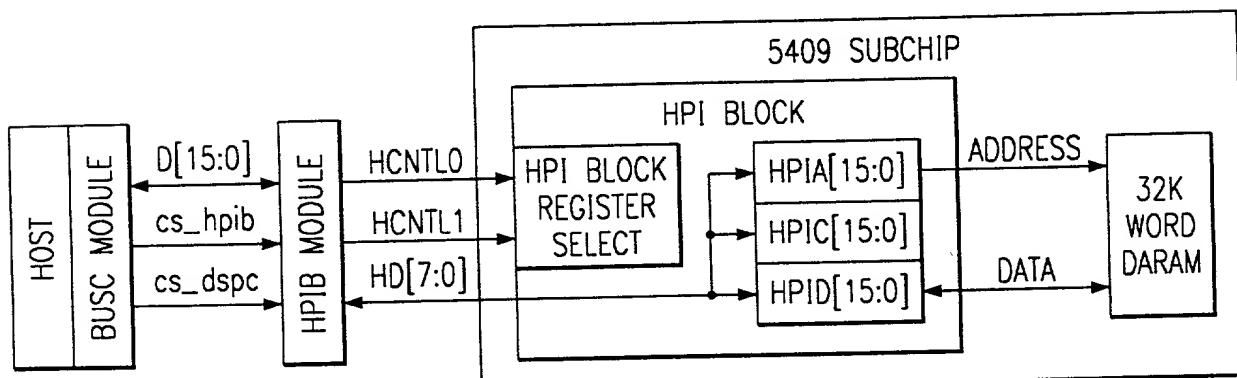


FIG. 23b

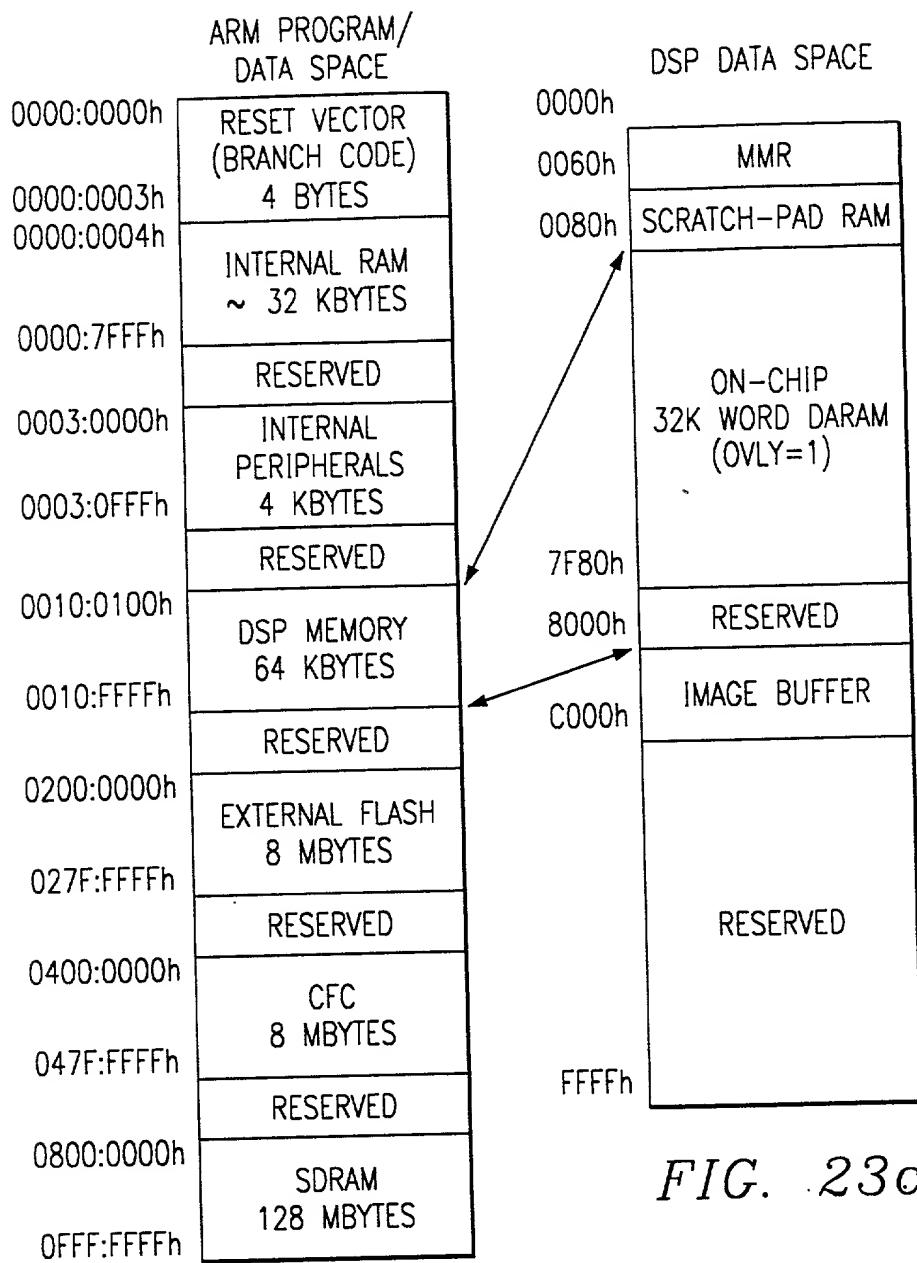


FIG. 23c

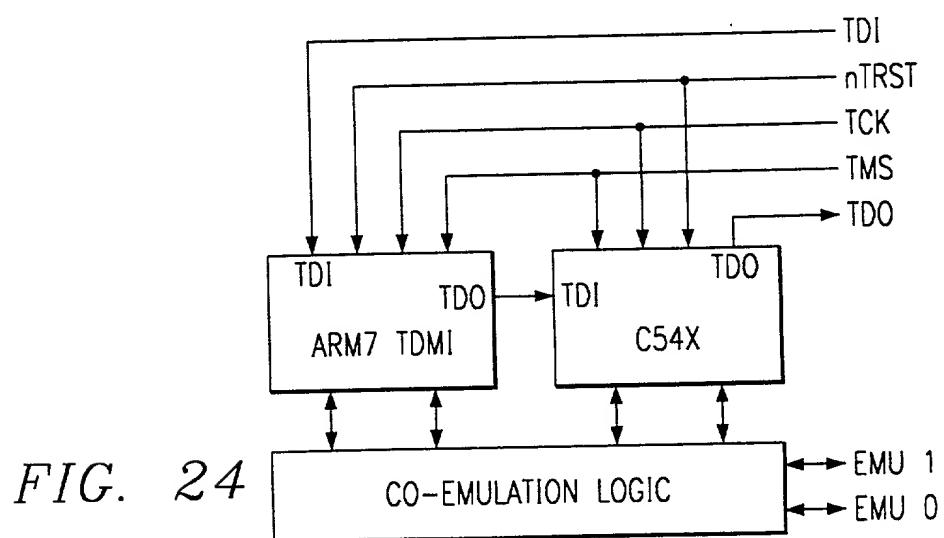


FIG. 24

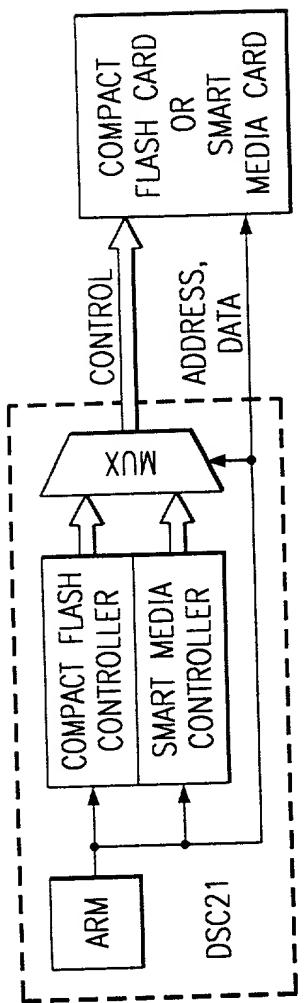
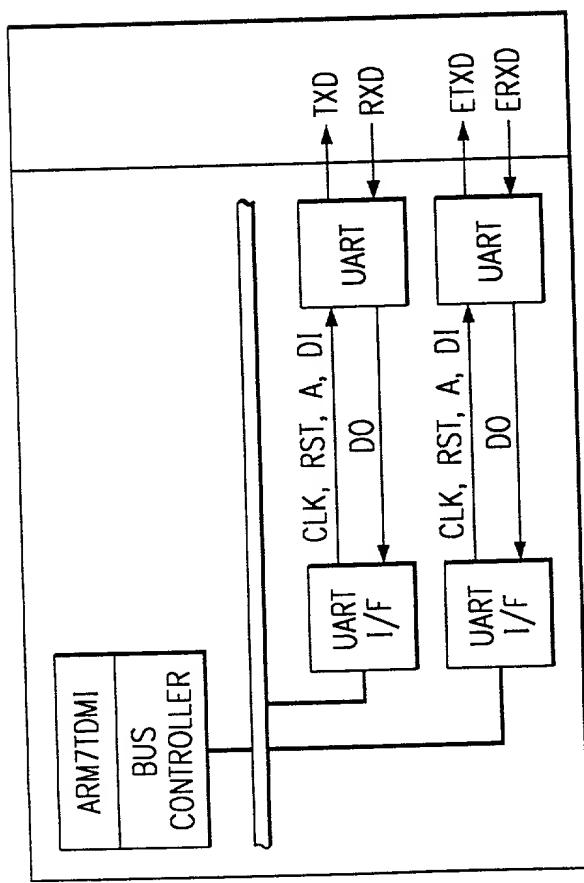
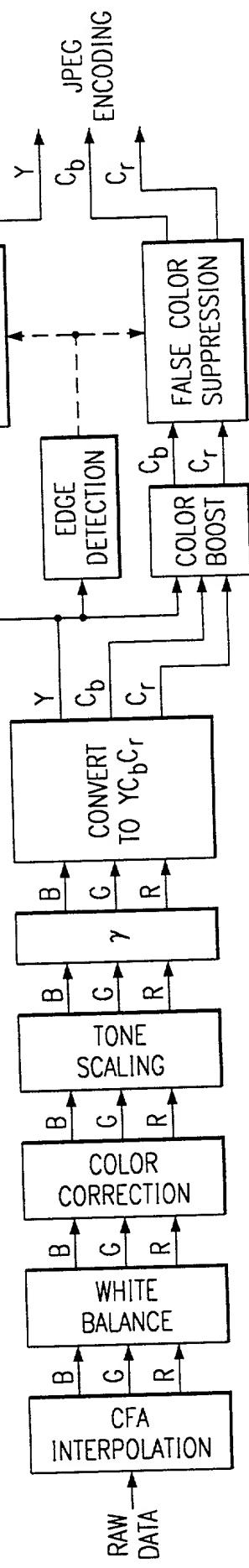


FIG. 25

FIG. 26



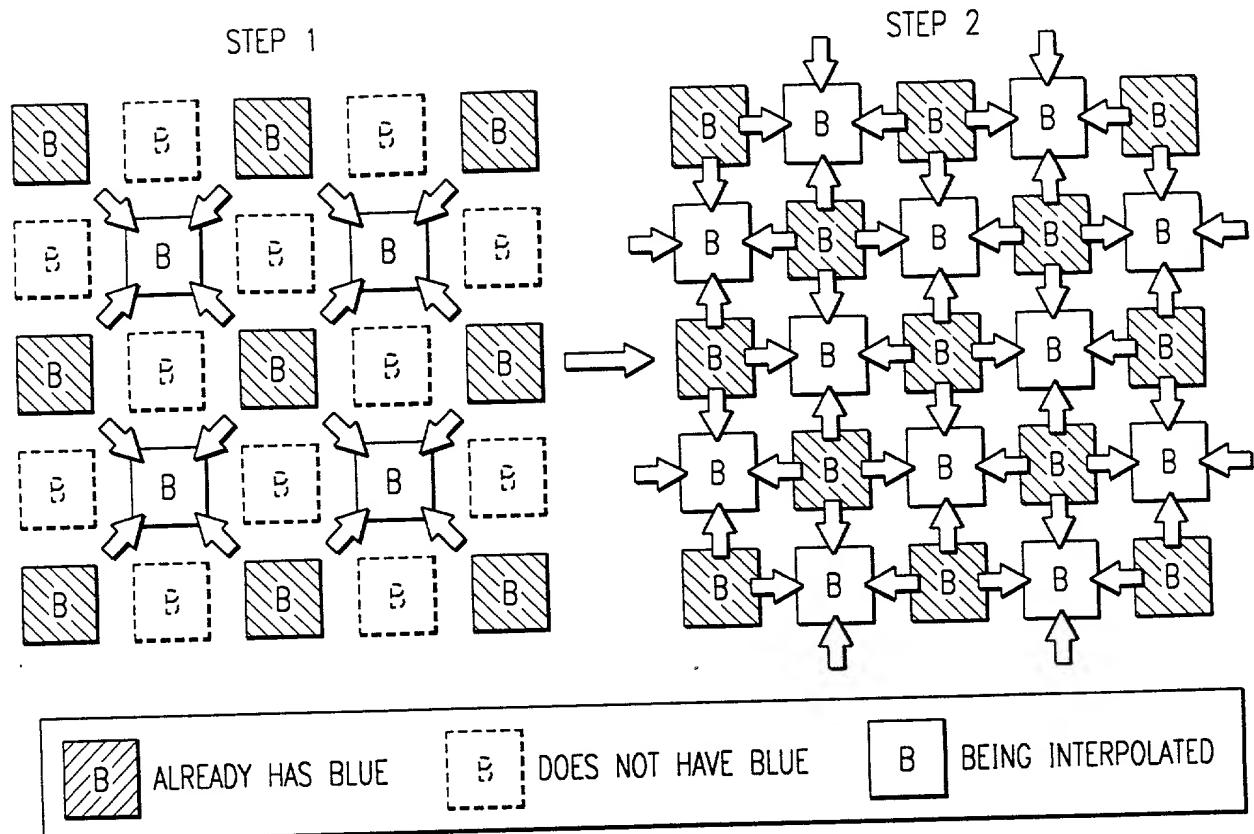


FIG. 28

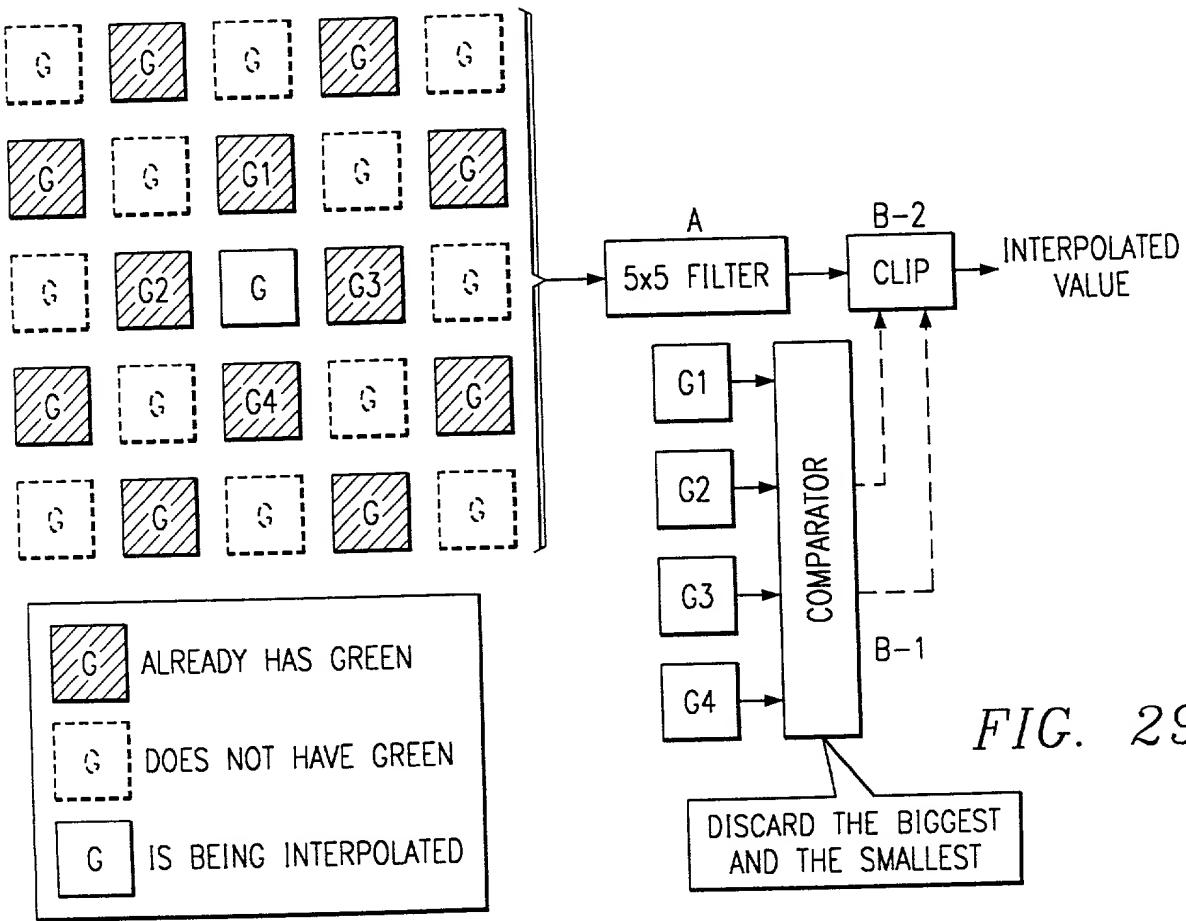


FIG. 29

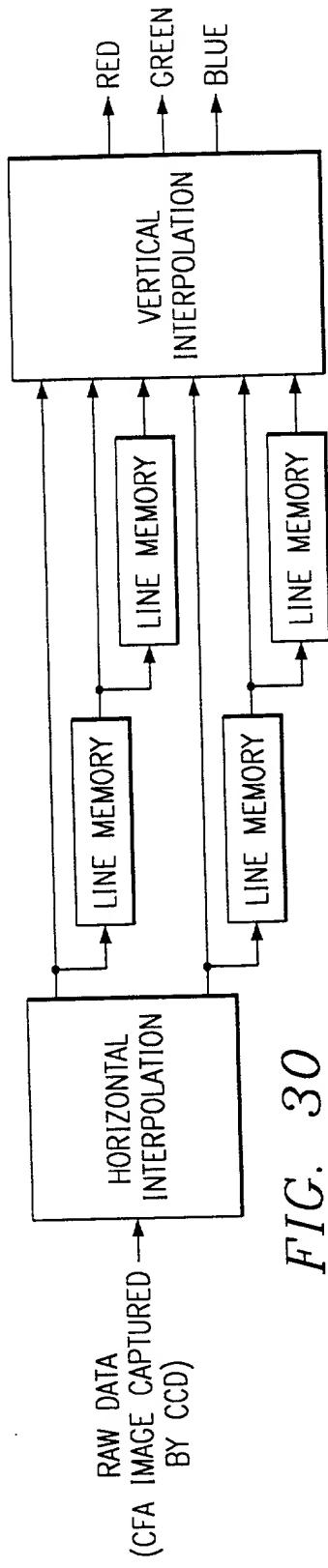


FIG. 30

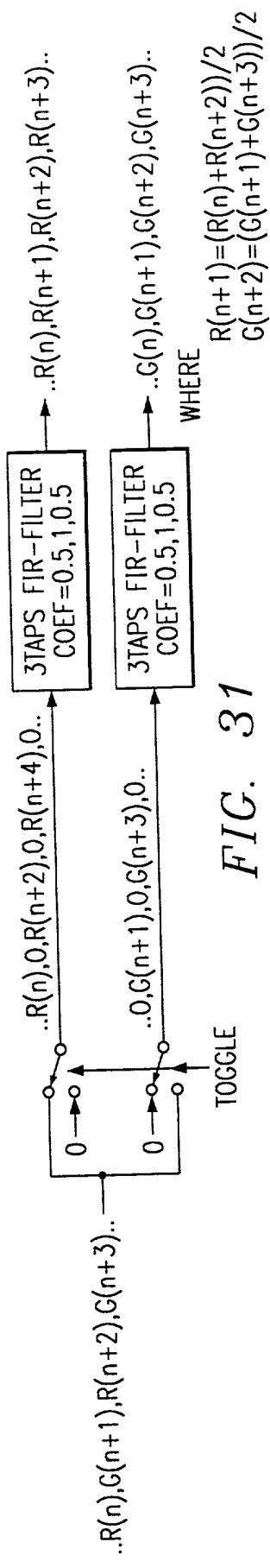


FIG. 31 TOGGLE

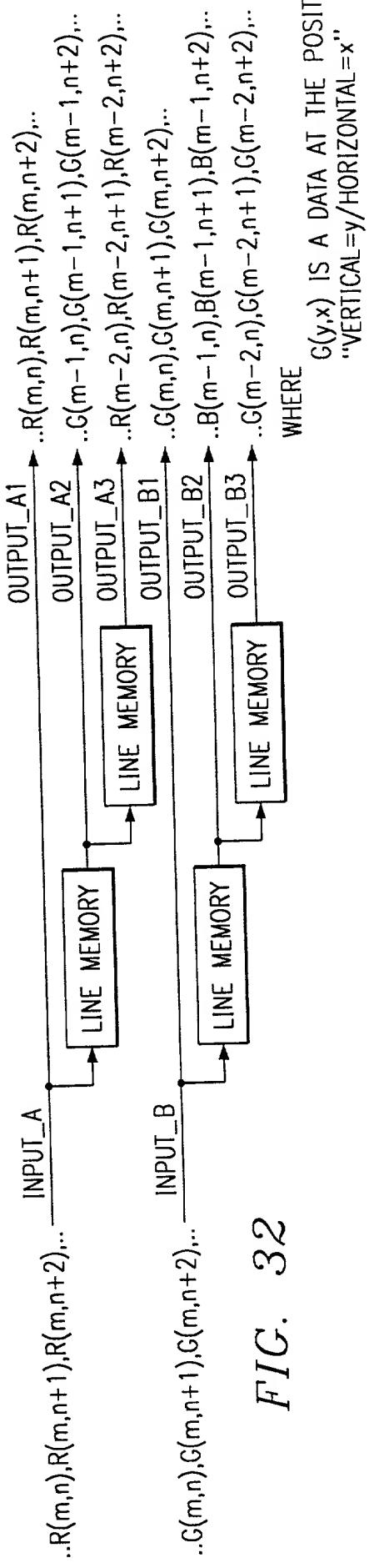


FIG. 32

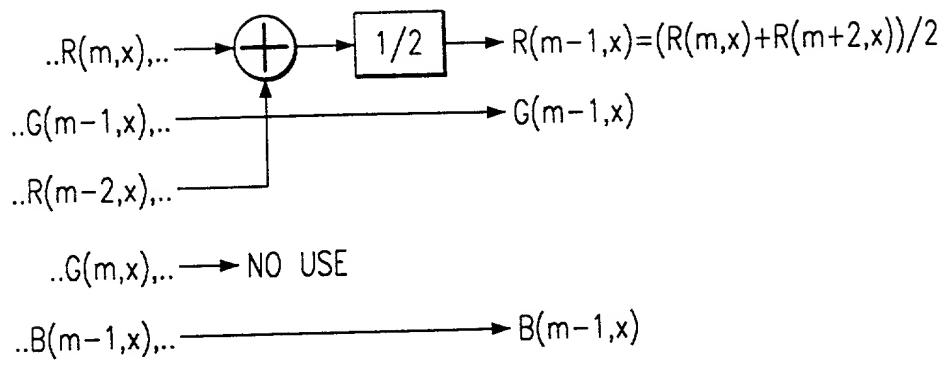


FIG. 33a

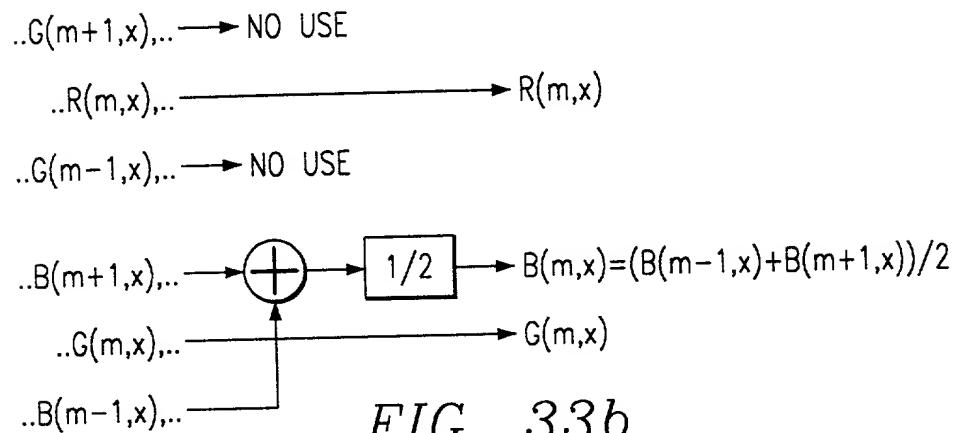


FIG. 33b

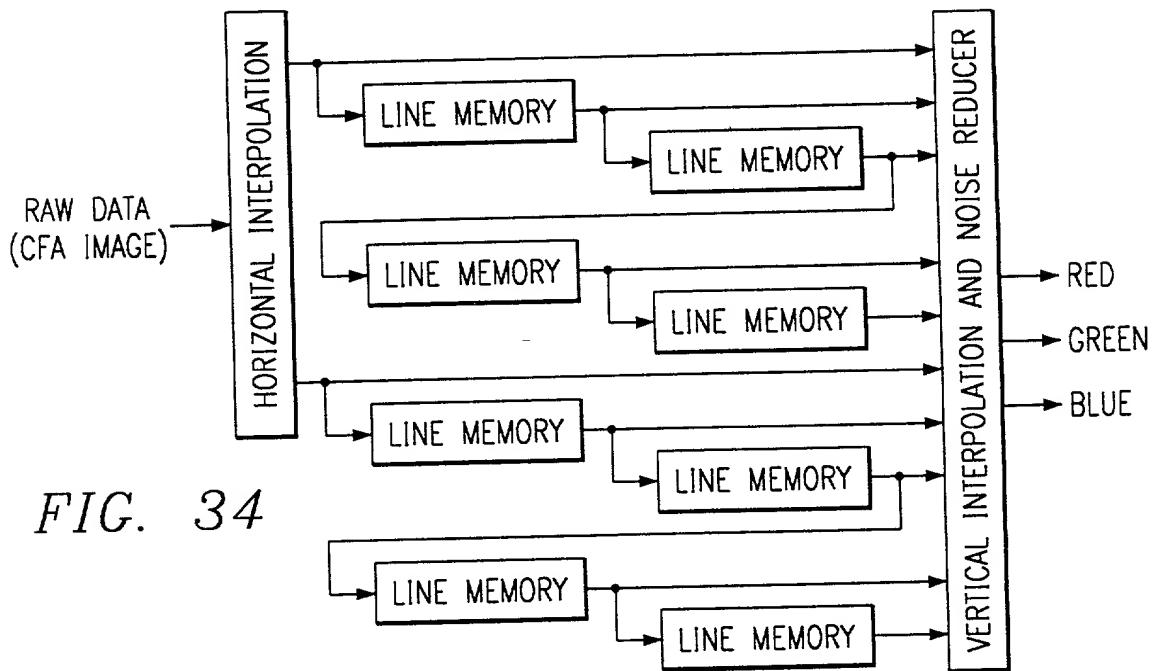


FIG. 34

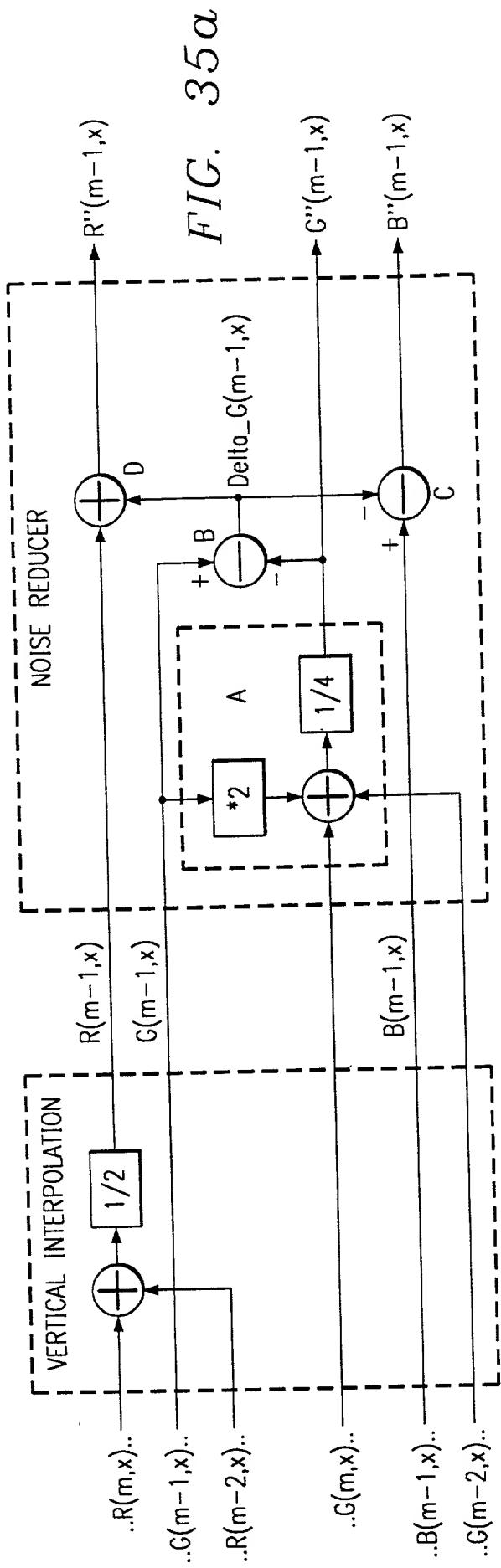


FIG. 35a

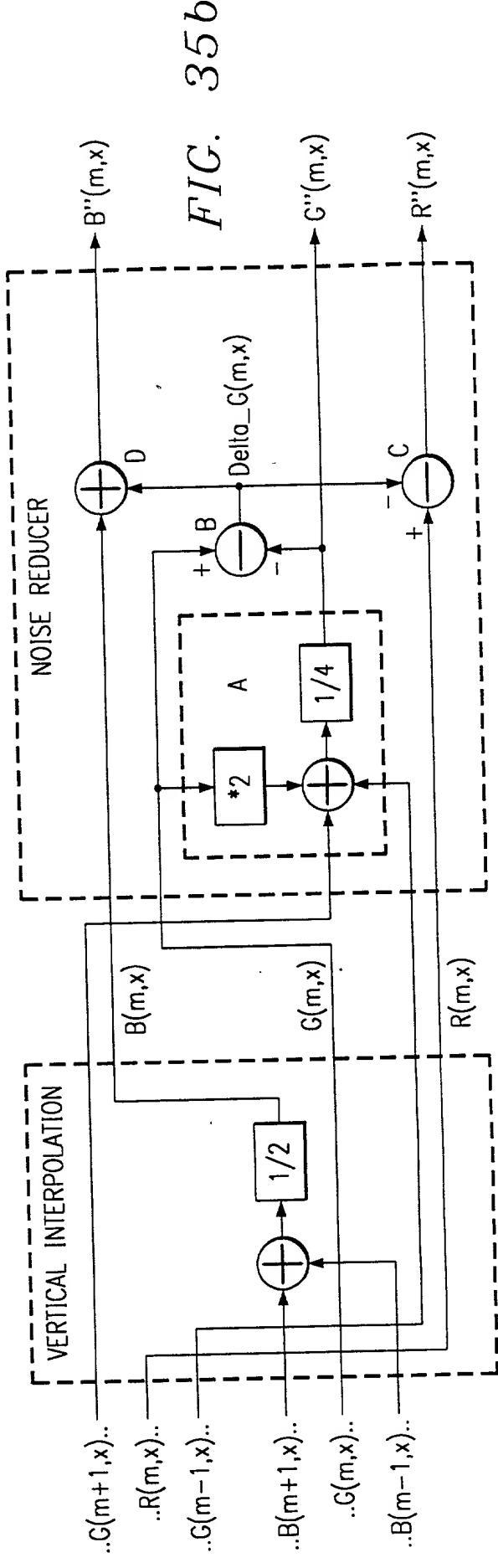
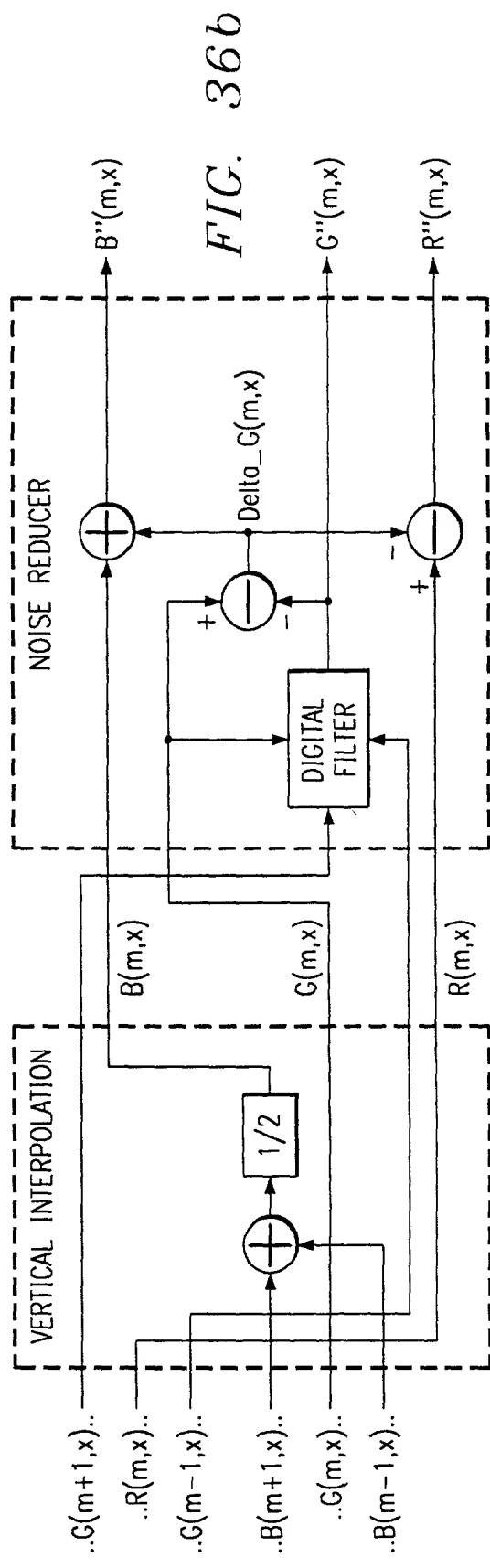
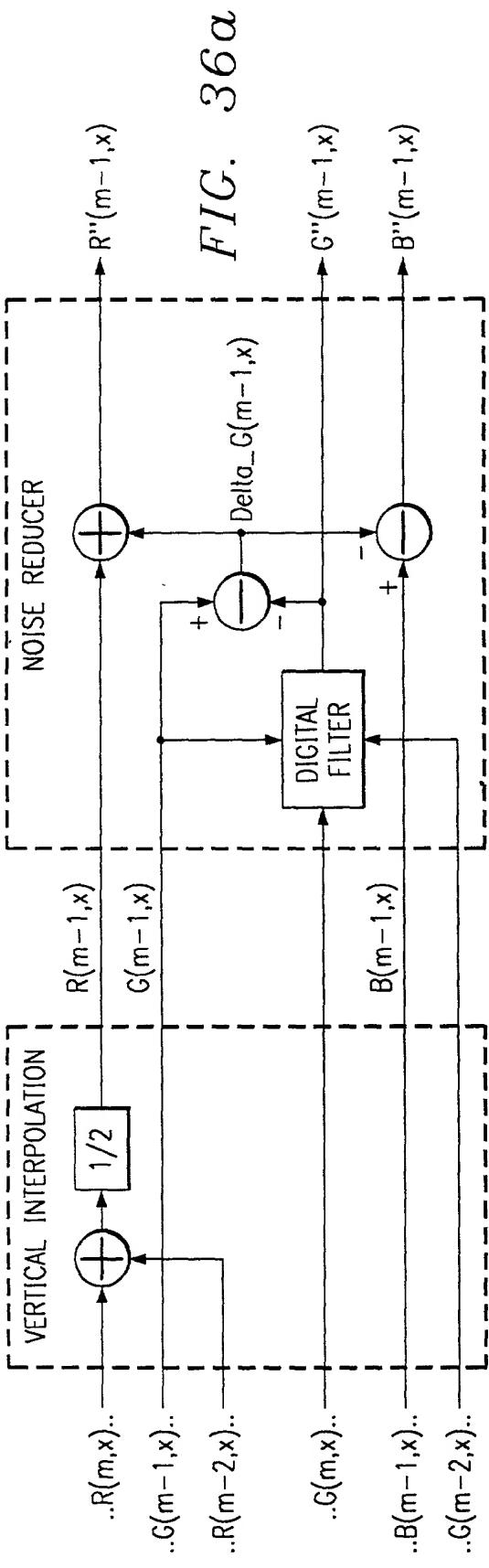


FIG. 35b



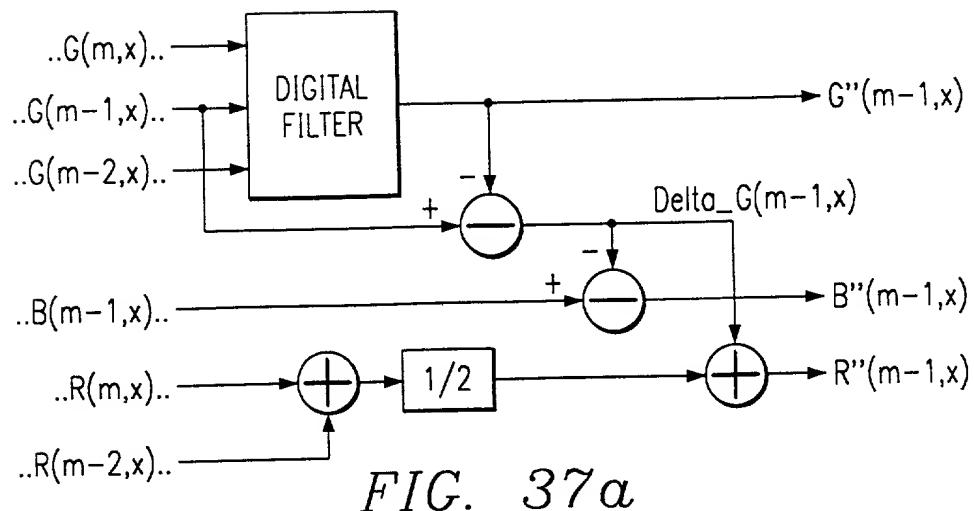


FIG. 37a

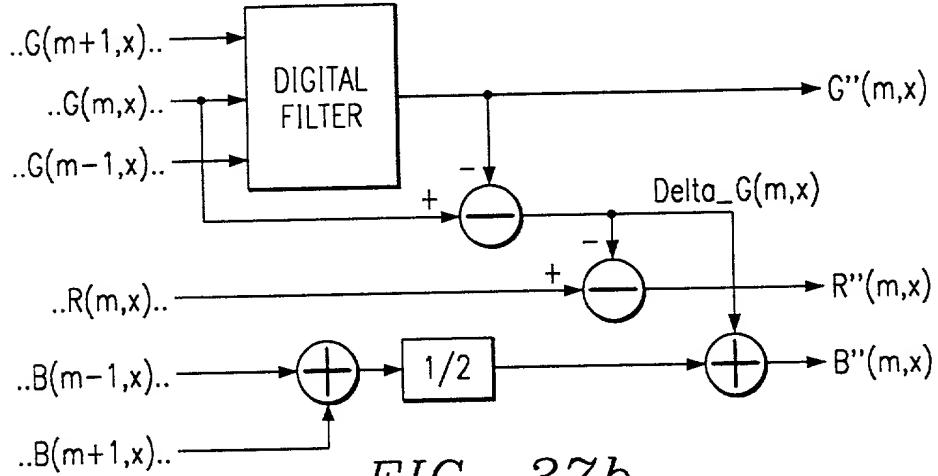


FIG. 37b

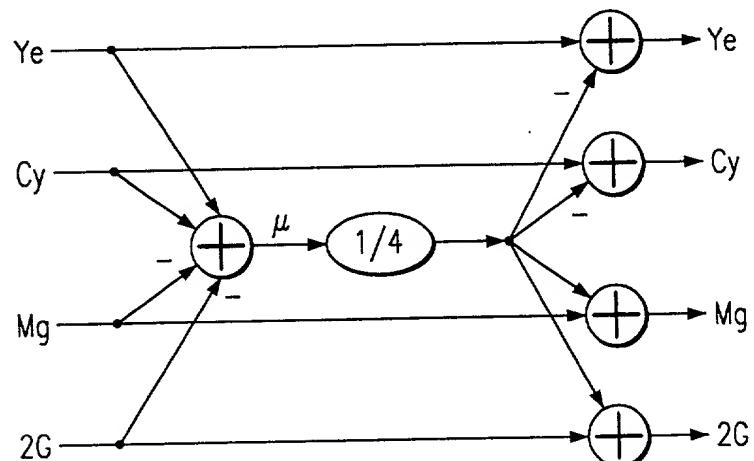


FIG. 38

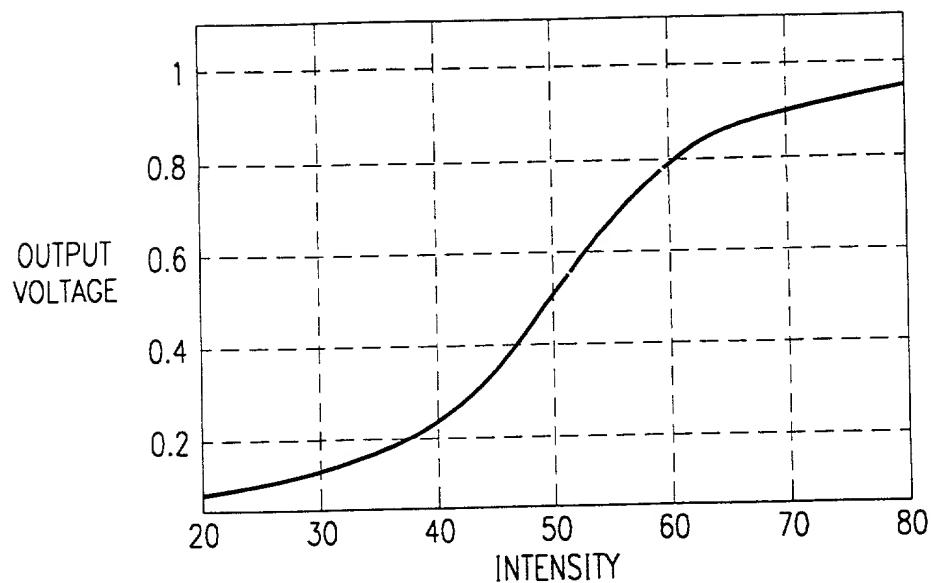


FIG. 39a

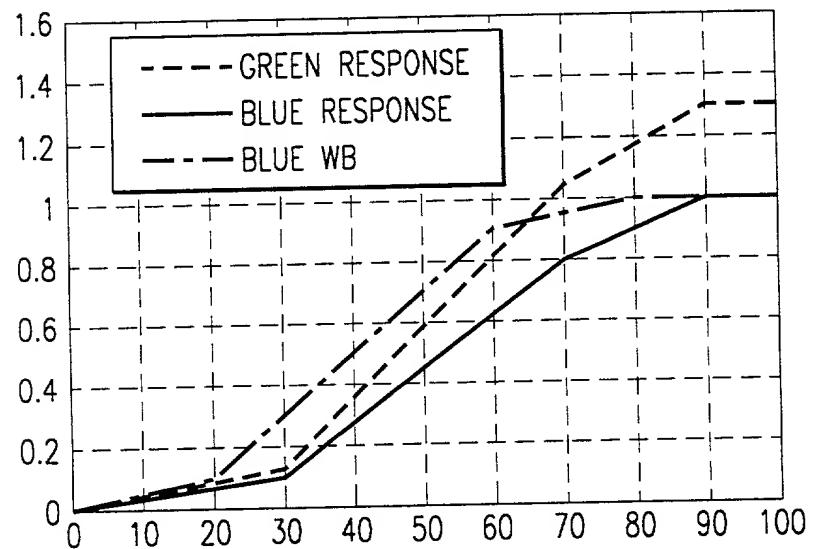


FIG. 39b

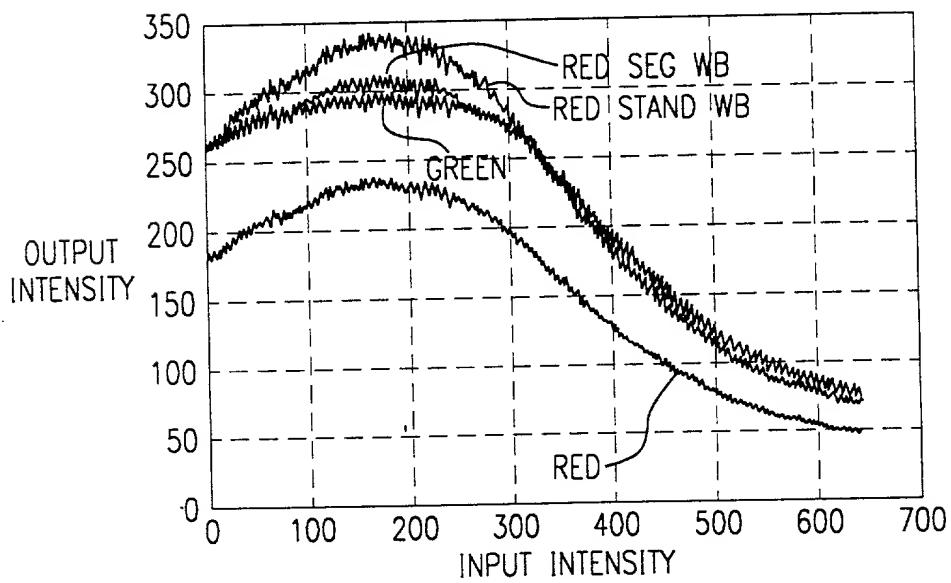


FIG. 40

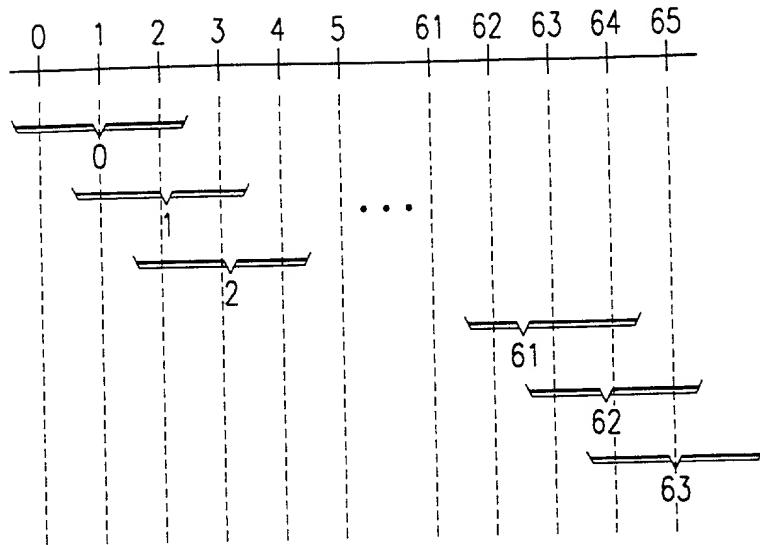


FIG. 41a

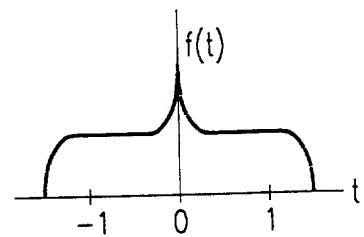


FIG. 41b

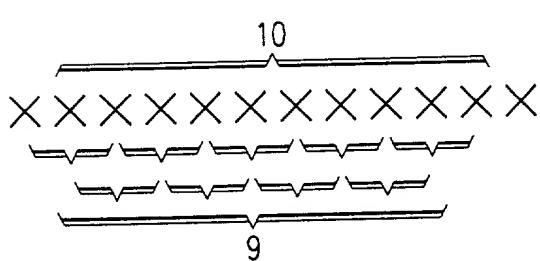


FIG. 42a

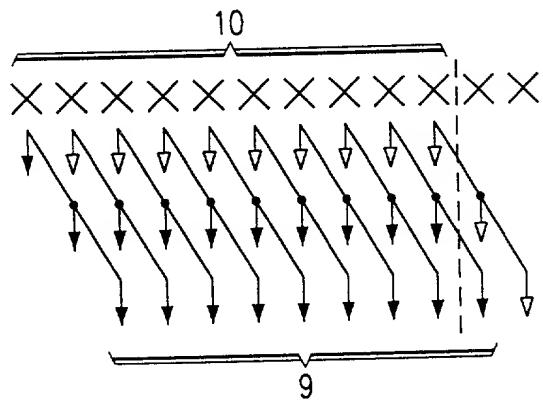


FIG. 42b

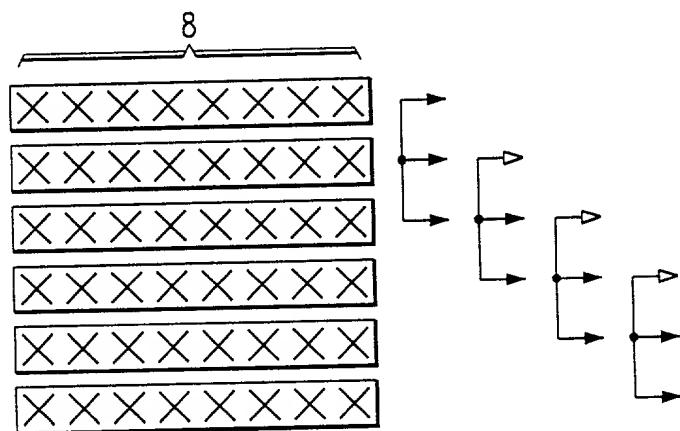


FIG. 42c

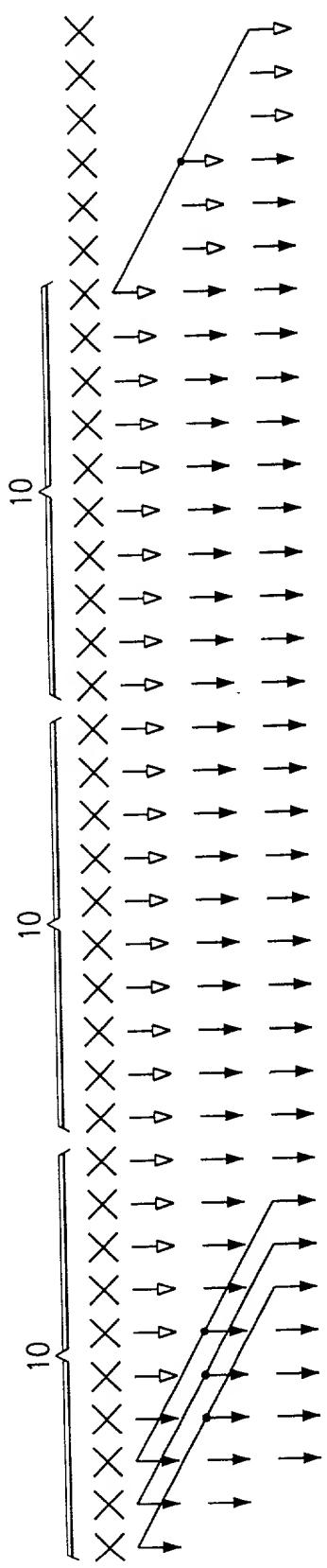


FIG. 42c

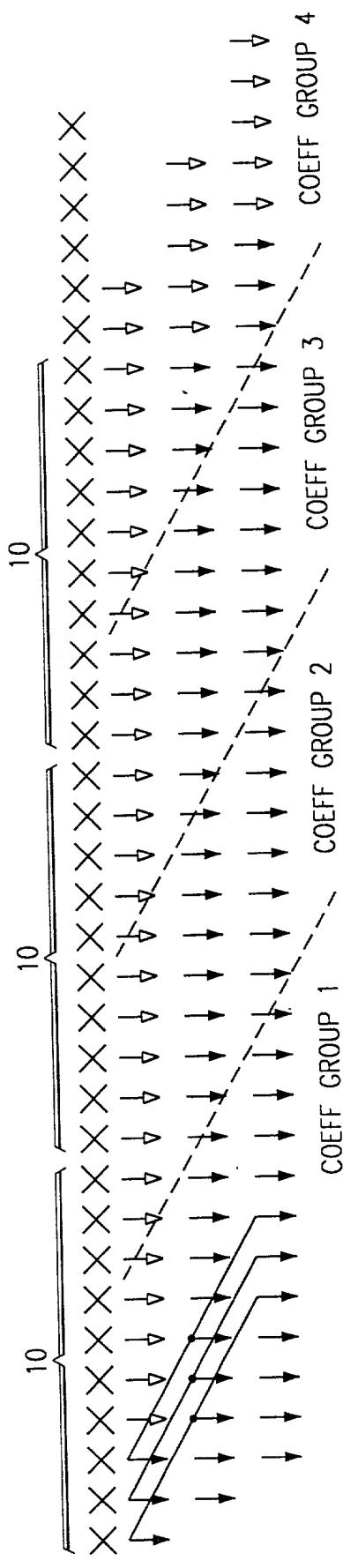


FIG. 42d

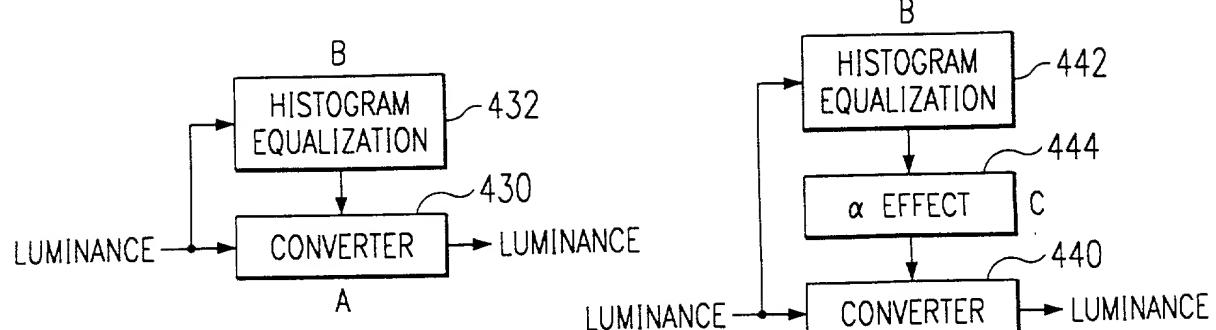


FIG. 43

FIG. 44

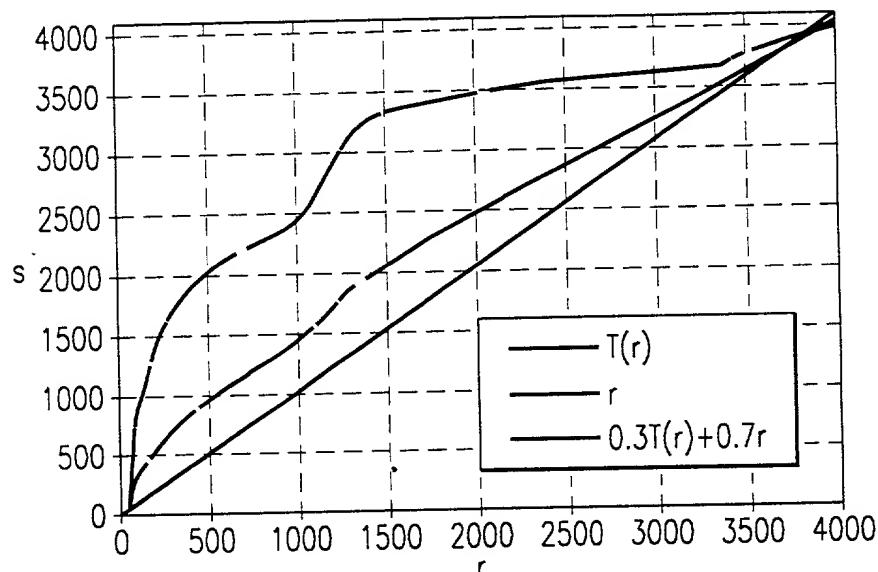


FIG. 45

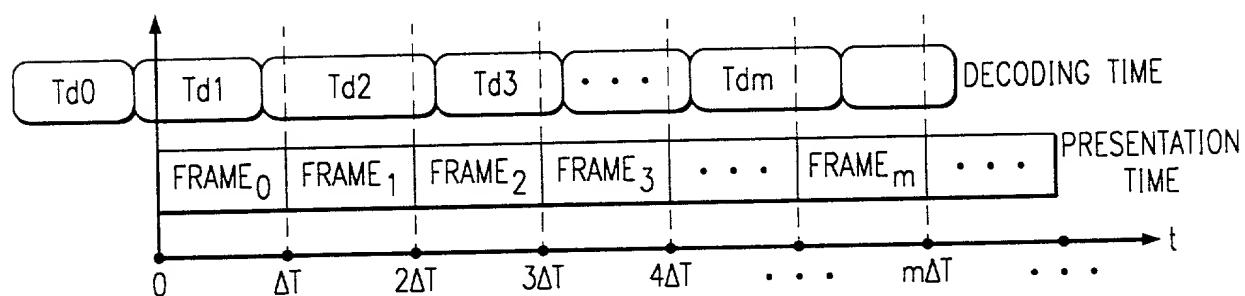


FIG. 46a

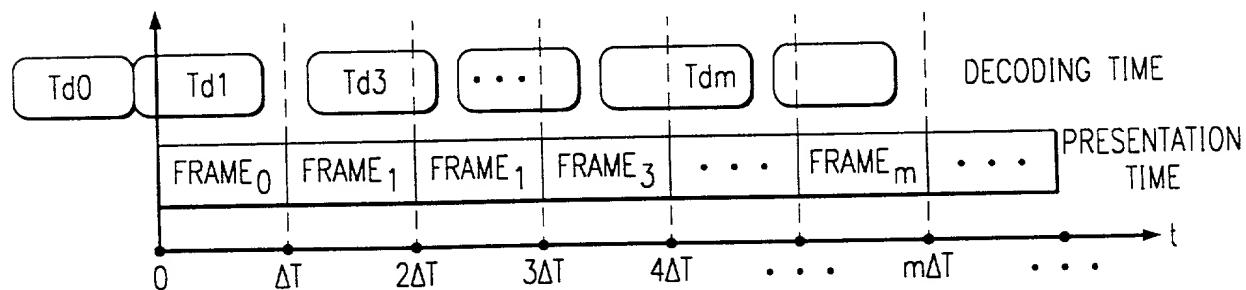


FIG. 46b

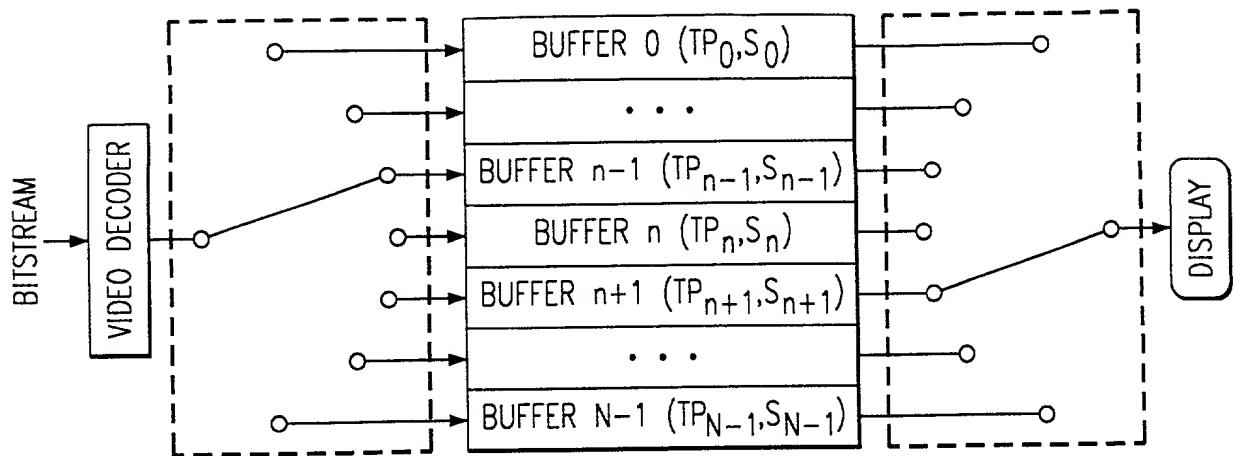


FIG. 47

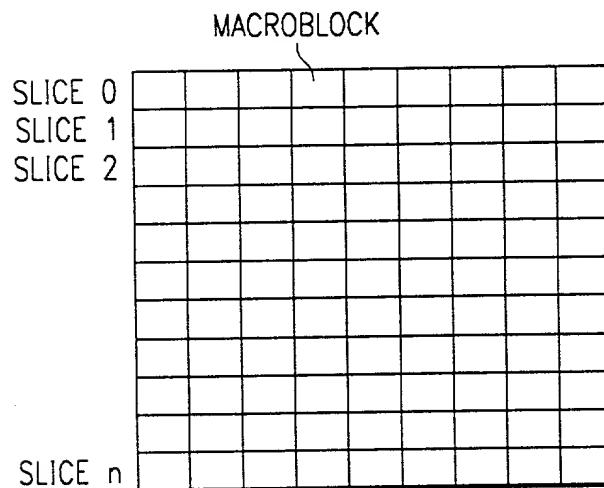


FIG. 49

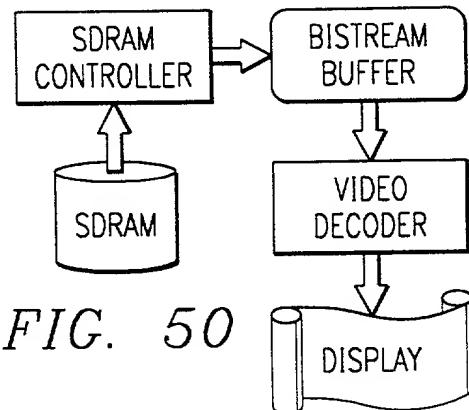


FIG. 50

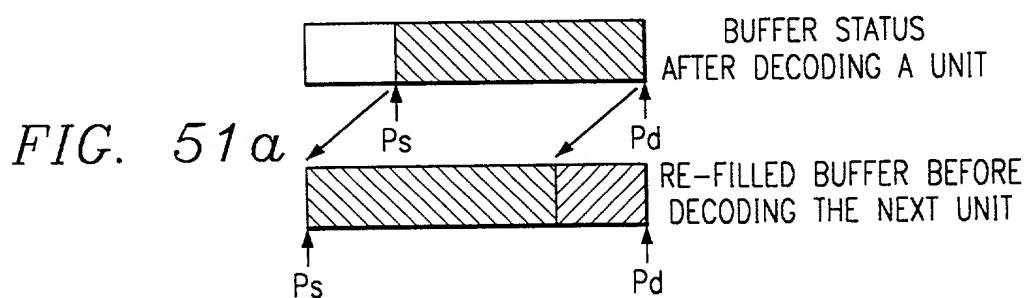


FIG. 51a

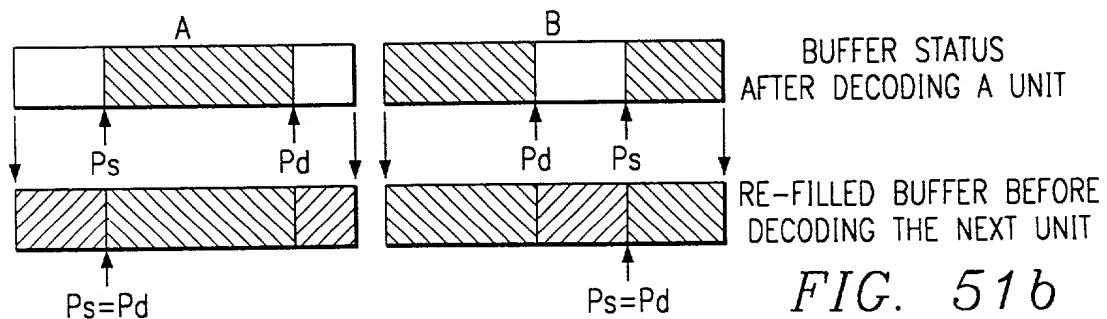
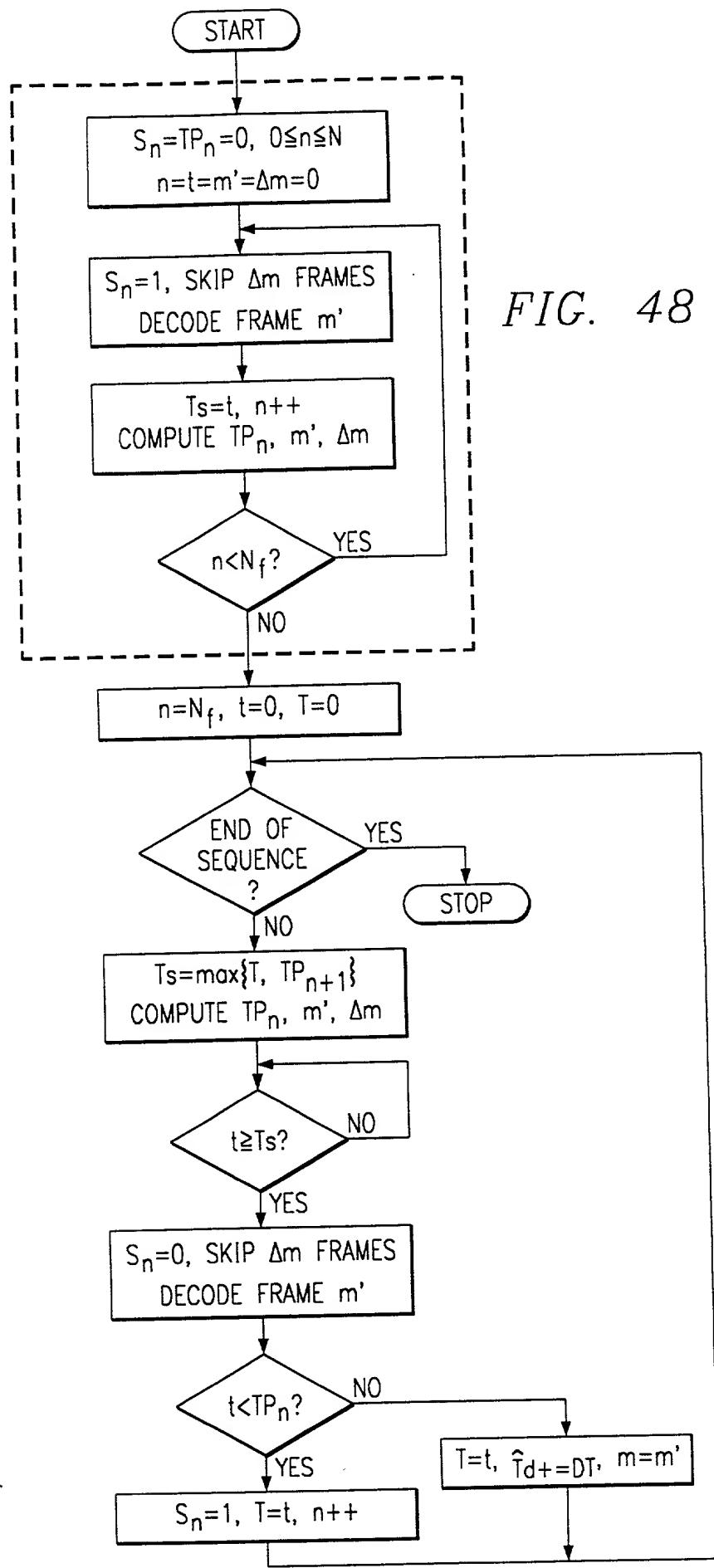


FIG. 51b

FIG. 48



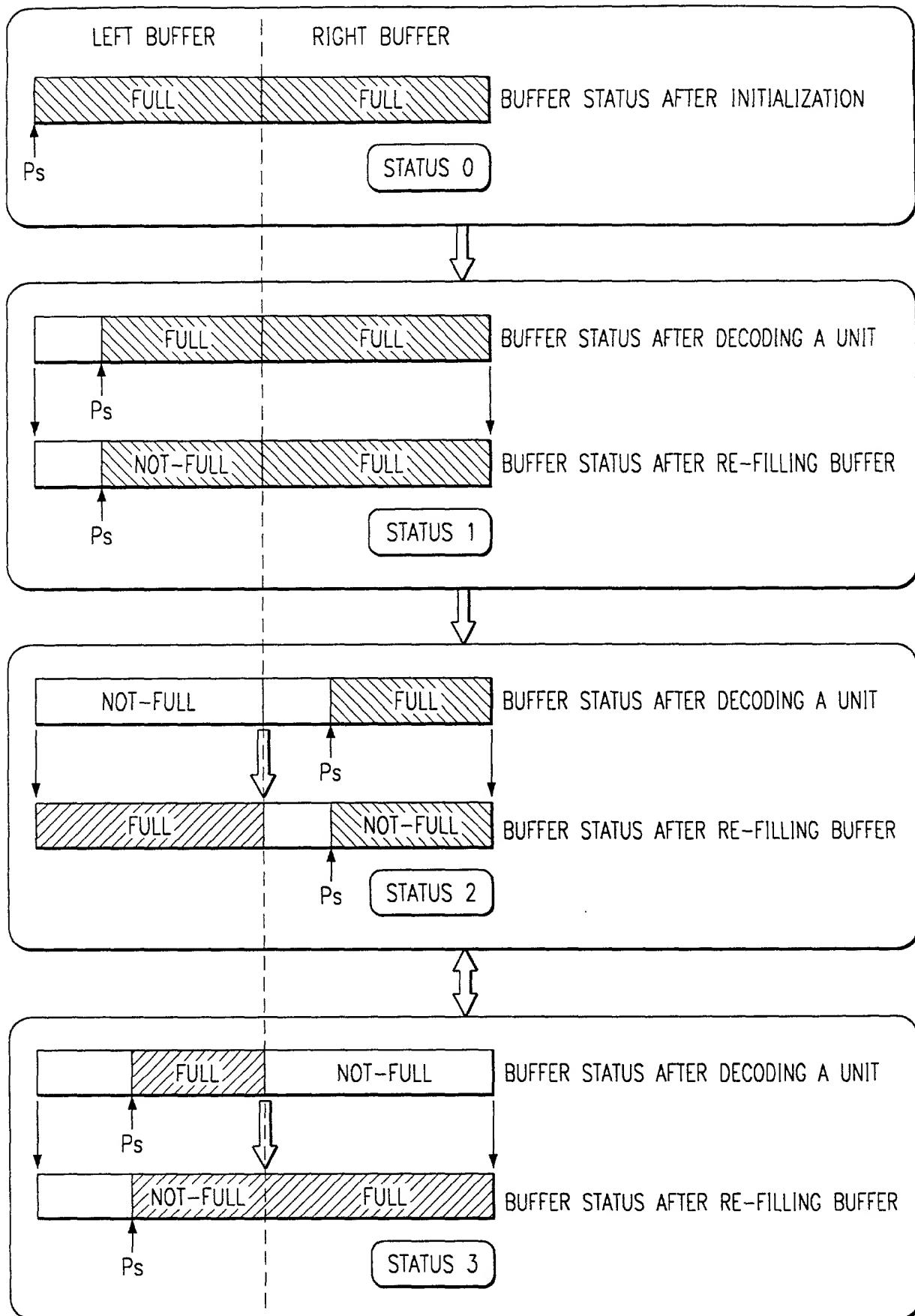


FIG. 52